Volume 169 No. 10

Oil, Paint and Drug Reporter

The Chemical Market Authority Since 1871

March 5 1956

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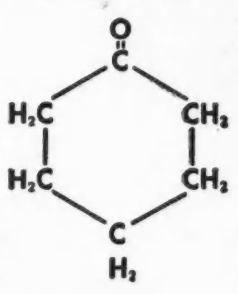

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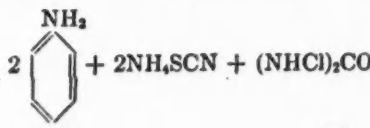
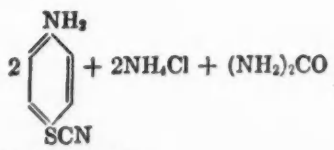
3. Aromatic thiocyanates can be prepared with ammonium thiocyanate with the aid of chloramides. The thiocyano group easily takes up the position para to the amine group, especially when one or both meta positions are vacant. If the position para to the amine group is occupied, the thiocyano group



aniline

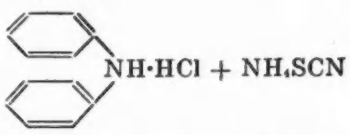


4-thiocyanoaniline

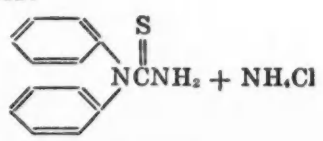
enters one of the ortho positions, but only with difficulty, with excessive heat liberation, and with the formation of a thiazole.

4. Some amine salts react with ammonium thiocyanate to give the corresponding amine thiocyanates.

5. Some amine salts yield the corresponding thioureas.



diphenylamine hydrochloride



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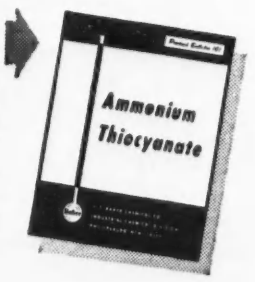

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MAR 5 1956

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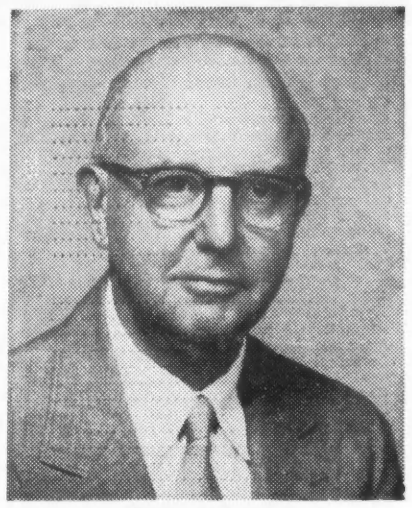
Vol. 169 No. 10 30 Church St., New York 7, N. Y. March 5, 1956



Raymond Stevens

Arthur D. Little Elects Top Officials

Arthur D. Little, Inc., Cambridge, Mass., has a new president and a new chairman of the board. The new president is Raymond Stevens, who had been a vice-president of the company since 1930. The new chairman is Earl P. Stevenson, former company president.

Mr. Stevens joined Little in 1920. Under his direction the firm has pioneered in such new areas as operations research and food and flavor research. In May the American Institute of Chemists will present its gold medal to Mr. Stevens in recognition of his contributions to "the wider understanding of the essential procedures for the management and operation of industrial research."

Mr. Stevens is the author of the recently announced Lexington Plan to recruit more high school science teachers with the help of industry.

Dr. Stevenson joined the company in 1919. He was later named vice-president and succeeded Dr. Arthur Dehon Little, the company founder, as president in 1935.

The new board chairman has played an active part in educational and professional fields.

Louisville Rubber Plant Hearings Are Postponed

Hearings which were to be held February 28 on the Clements-Barkley bill, S 3091, for sale of the government's alcohol-butadiene plant at Louisville, Ky., were postponed to a new date, to be announced later. The delay was due to the inconvenience of a hearing at that time in the light of the senate subcommittee's work schedule.

The bill provides for lease or sale of the plant—last of the unsold rubber facilities—on a long-term basis of five to fifteen years. Although members of the Rubber Producing Facilities Disposal Commission have indicated a desire to close up shop and return to their private lives, it is understood that they are willing to handle this last job if congress wishes them to do so.

Senator J. Glenn Beall, of Maryland, has offered an amendment to the bill to have the commission also sell or lease the government's alcohol-butadiene catalyst equipment at Baltimore, Md. This equipment, which cost $90,000, and is now idle, is located on the property of Davison Chemical Company.

Allied Expansion Plan Calls for $70-$80 Million

Allied Chemical & Dye Corporation, New York, plans to spend between $70 to $80 million for new plants and equipment this year, according to Fred J. Emmerich, president, in the company's annual report.

Capital expenditures in 1955 totaled $54 million, as against an outlay of $94 million in 1954.

Early last year, Allied completed a caprolactam plant, and a fiber and resin plant. Other major projects included a plant to make "Genetron" fluorinated hydrocarbon refrigerant and propellant compounds, a hydrogen peroxide facility, and more ammonia and sulfuric acid capacity.

Plant projects now under way include more capacity for aniline for dyes and other chemicals, a unit for manufacture of isocyanates for foam plastics, and a vinyl chloride plant.

FTC Is Now Ready to Roll On Antibiotics Industry Probe; To Cost Around $100,000

Federal Trade Commission is ready to roll on its investigation of the antibiotics industry. The agency hopes to complete the job in about fifteen months at a cost of around $100,000. This was revealed by the house appropriations committee last week in making public testimony favoring FTC's request for $5,500,000 in funds to cover its operations for fiscal 1957. Included in this total is the $100,000 for the antibiotics probe.

Survey in Works for Several Years

Preliminary plans for the survey of antibiotics producers have been drawn up for several years. However, because of the pressure of other matters—chiefly the special hurry-up review of the corporate merger movement and an investigation of the coffee industry last year—the commission until now has been unable to siphon off enough manpower and money to get the project "off the ground."

The study of the antibiotics industry is to deal mainly with its pricing practices. This phase of the review has been given strong support by members of the house committee assigned to work with FTC. Also to be looked into is an "alleged conspiracy" between producers and wholesalers.

Testimony regarding the commission's plans in this field was touched off by Chairman Albert Thomas of Texas of the appropriations subcommittee with a question on whether FTC has had an occasion to look into the drug manufacturing industry recently.

He said that the government is spending around $75,000,000 to $80,000,000 a year for drugs and medicines, which "is about 5 percent of the total productive capacity of the industry."

"What about the price situation generally in the field of drugs?" Mr. Thomas asked. Harry A. Babcock, director of the

—Continued on page 70

Interhandel, OAP Seen Moving Nearer Settlement

The suit between Interhandel and the Office of Alien Property over ownership of General Aniline & Film Corporation, New York, appears to be moving toward a settlement. Some progress in this direction was made last week as the Supreme Court of the United States refused to upset a lower court dismissal of Interhandel's claim to the property.

The supreme court's action was announced in a routine list of petitions for writs of certeriorari denied by the court. Interhandel had appealed to the court for reversal of a decision by the United States Court of Appeals sustaining an earlier rul-

—Continued on page 70

ASSISTANT SALES MANAGER: Donald L. Johnson, made assistant sales manager of Victor Chemical Works, Chicago.

FDA Is Attacked For Additives Stand

Food and Drug Administration arguments that the Priest-O'Hara bills would make it necessary for the Secretary of Health, Education and Welfare to obtain a supporting court ruling every time he gave an adverse opinion on the safety of a new food additive are "unsound" and "absurd."

This was the position taken last week by counsel for the food industries supporting the legislation in a supplemental statement to the house interstate commerce subcommittee on health and science.

The chemical industry is understood to take the same position, and plans to make its views known to the committee also.

Objections of the FDA to the legislation (HR 8271 and HR 8275) were centered mainly on the court review sections (OPD, 2/20/56). FDA counsel charged that unless the secretary filed a suit for a declaratory judgment after every adverse ruling on a food additive, there was nothing to

—Continued on page 70

Polyethylene Increase Set

A substantial increase in capacity is planned for the "Tenite" polyethylene plastic manufacturing facilities of Texas Eastman Company, a division of Eastman Kodak Company.

According to W. S. Vaughn, president of Eastman Chemical Products, Inc., Kingsport, Tenn., total output after additional equipment is installed at the Longview, Tex., plant will be 40 million pounds annually.

Mr. Vaughn stated that construction work on the new facilities is now in progress and will be completed later this year. This increased capacity, he said, is in response to the favorable acceptance of "Tenite" polyethylene by the plastics industry.

Eastman Chemical has also developed a new series of formulas for its "Tenite" polyethylene, giving it improved properties.

In view of the company's pioneering work in thermoplastics via its "Tenite" butyrate, Mr. Vaughn pointed out, the adding of these new polyethylene formulas is another logical step in strengthening the firm's position in the industry.

According to S. E. Palmer, vice-president of plastic sales, the new formulas have improved clarity and stiffness. He indicated that one immediate effect of greater clarity would be improved packaging, where polyethylene film is in wide use.

The greater stiffness, or rigidity, he felt, will noticeably improve the quality of many molded products, particularly housewares.

Fund Tripling Asked for FTC's Merger Probes

The administration wants congress to provide the Federal Trade Commission with more than three times the funds now available for enforcement of the anti-merger law next year. This was disclosed last week with publication by the house appropriations committee of testimony on the FTC appropriations for fiscal year 1957, which revealed a request for $1,256,000 for this work alone as compared with current year's funds of only $388,300.

Total appropriations for all activities of the agency for the next fiscal year were budgeted at $5,500,000, which would be the greatest amount ever advanced to the commission in its history. Appropriations this year amounted to $4,262,500.

Merger Rate Still High

FTC Chairman John W. Gwynne told the committee that the merger movement is still under way at a rapid pace. He said that incomplete figures for 1955 indicate that the number of acquisitions had risen at substantially the same rate of increase as previous years, and in the case of those acquisitions where the acquiring company had assets of $50,000,000 or more, they have risen more rapidly than mergers by the smaller companies.

In addition to asking more enforcement money, he said, the FTC has also made recommendations to the house judiciary committee for legislation requiring corporations having combined assets in excess of $10,000,000, to give the government ninety days notice of their intentions to merge.

This recommendation is embodied in HR 9424 now under consideration by the judiciary committee. A subcommittee of the full committee voted its approval of the bill last week and preliminary debate on the bill was begun by the full committee later. The committee is to take up the measure again tomorrow.

Mr. Gwynne also testified that FTC has asked that the law be amended so that FTC can go into court and ask for an injunction to restrain violations before they can happen.

He said that these amendments to the law, plus the increased appropriations, will "put the machinery of law enforcement in high gear."

Polyvinyl Chloride Unit Is Being Built by Borden

A new polyvinyl chloride resin plant with a production capacity of about 12,000,000 pounds a year is being built at Leominster, Mass., by Borden Company's chemical division.

This is Borden's first polyvinyl chloride plant, and marks completion of three years of study and development. With construction work started in January, the plant will be completed in June.

The operation will be located on a six-acre tract of land adjoining Borden's present monomer department plant, which produces polyvinyl alcohol and polyvinyl acetate. The new plant will be housed in two buildings.

The facility will produce a wide variety of specialty resins and vinyl chloride latices as well as general-purpose polyvinyl chloride for the calendering and extrusion field. The general contractor is Scientific Design Company, New York.

Union Carbide Establishes New Development Division

Union Carbide & Carbon Corporation, New York, has formed a new division, Union Carbide Development Company. The function of the unit will be long-term corporate planning and evaluation of new business opportunities.

Birny Mason, jr., secretary of Union Carbide & Carbon, has been named president of the new division, and R. E. Cornwell, E. J. Fox and J. J. Murphy have been appointed vice-presidents.

Operating divisions of the corporation will continue to carry on their own research and development work in the firm's major fields of activity.

Zirconium Output Hike Set

Firth-Sterling, Inc., Pittsburgh, Pa., has announced that it is increasing substantially its capacity for vacuum-melting zirconium. A new consumable electrode furnace will more than double present capacity, and will produce ingots up to one ton, according to the company.

Public Relations Is Needed On Two Fronts: DCAT Head

A two-pronged industry-wide public relations campaign to promote American-made chemical products abroad and also develop a program to meet the growing need for technical personnel in the drug and chemical industry was proposed last week by Sydney N. Stokes, chairman of the Drug, Chemical and Allied Trades section of the New York Board of Trade, at that organization's thirtieth annual dinner at the Waldorf-Astoria hotel, New York.

SALES VICE-PRESIDENT: S. F. Thune, promoted from vice-president and manager of the midwest division to sales vice-president of the National Adhesives Division, National Starch Products, Inc., New York.

The vast expansion of the chemical industry in the past ten years will be topped in the decade ahead, Mr. Stokes declared. This, he felt, plus the fast growing atomic and solar energy programs, offer a prodigious challenge to furnish technically trained personnel in all phases of scientific work relating to chemicals and drugs.

Apparent Reference to ADMA

In apparent reference to the plan put forward by the American Drug Manufacturers Association (see separate story on page 5), Mr. Stokes complimented those segments of the chemical industry that have already launched their own public relations programs and urged others to initiate similar ones.

"However," he continued, "there is a much broader role which can be undertaken through a coordinated public rela-

—Continued on page 62

Cutter Will Limit Polio Vaccine Efforts

Cutter Laboratories, Berkeley, Calif., will carry out only research and pilot production on poliomyelitis vaccine this year, it was revealed last week by Dr. Robert K. Cutter, president, in the company's 1955 annual report.

The company sustained a loss of $1,209,000 before taxes last year, due in large part to the Salk vaccine muddle. After a tax carryback of $625,000 the operating loss for 1955 was reduced to $584,000.

Because of a revaluation of its poliomyelitis vaccine inventory and extraordinary expenses connected with the vaccine program, Cutter was compelled to write down its assets some $1,373,535.

The Berkeley firm, one of six companies

—Continued on page 71

Hercules to Build Methanol Plant at Louisiana, Mo.

Hercules Powder Company, Wilmington, Del., plans to put up a new facility to produce 7,000,000 gallons of methanol a year.

The plant, to cost in excess of $2,000,000, will be built at Louisiana, Mo., where Hercules now produces 40,000 tons of anhydrous ammonia a year and is completing construction of a multi-million dollar pentaerythritol and formaldehyde plant.

A large part of the annual capacity of Hercules' new methanol plant will be used by the company in the adjacent new PE plant. Approximately one-third of the seventy-ton daily methanol production will be for sale, the company announced.

The new methanol plant will integrate with present facilities in the manufacture of ammonia at the plant which Hercules bought two years ago.

Hercules will utilize for the first time in the United States the Swiss Inventa process for the production of methanol. Construction of the plant will get under way late this spring with completion scheduled for the second quarter of 1957.

Contract for the engineering and construction has been awarded to the Vulcan Copper and Supply Company of Cincinnati, Ohio.

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Chemical Exports Break Record

Surpassing the billion-dollar mark for the second consecutive year, United States exports of chemicals and related products continued their upward climb in 1955 to set another new record, according to preliminary figures available from the Bureau of Census. Imports also increased last year, but were still far behind the 1951 record total.

Figures of the bureau showed that exports reached $1,090,200,000 in 1955, while the imports totaled $256,800,000. Last year's exports topped the 1954 record by $27,200,000, and compared with $819,000,000 in 1953; $801,000,000 in 1952; $977,000,000 in 1951; and $722,000,000 in 1950.

In contrast to the steady upward trend in exports, the value of imports has varied widely from year to year. Last year's import total compared with $249,800,000 in 1954; $293,000,000 in 1953; $244,000,000 in 1952; the record of $301,000,000 in 1951, and $170,000,000 in 1950.

The December, 1955, export total, the Bureau said, was $97,200,000, which was an increase of $4,100,000 over November, and $11,100,000 over December, 1954. Imports last December amounted to $21,700,000, as against $21,300,000 in November, and $20,600,000 in December, 1954.

DISTRIBUTION CHIEF: Carl K. Raiser, named director of distribution for Smith, Kline & French Laboratories, Philadelphia.

Polyvinyl Alcohol Reduced

Prices of six grades of "Elvanol" polyvinyl alcohol have been reduced an average of 6½ percent by E. I. du Pont de Nemours & Co., Wilmington, Del. The company said price reductions have been made possible by improved efficiency ing market. DuPont recently doubled its "Elvanol" capacity.

CSC Plans Expansion Of Methanol Facilities

Commercial Solvents Corporation, New York, will spend $10 million to expand its methanol and petrochemical derivatives facilities, according to J. Albert Woods, president.

The new construction will be an addition to CSC's Sterlington, La., plant. A portion of the appropriated funds will be spent at the company's Terre Haute, Ind., plant for the expansion of facilities to process CSC's basic products into upgraded chemical derivatives, Mr. Woods said.

FDA Holds Fast To Tolerance Rules

The Food and Drug Administration intends to adhere strictly to its policy, laid down in 1951 following the extensive pesticide hearings, of allowing no tolerances for residues of a chemical pesticide greater than that required by law.

This was disclosed last week when the agency fixed a tolerance of zero for residues of the pesticide endrin in or on cabbage, cottonseed, cucumbers, eggplant, peppers, potatoes, sugar beets and tops, summer squash, and tomatoes, when these products enter the market for sale.

A tolerance of one-tenth part per mil-

—Continued on page 62

The Week's Price Changes

Petroleum Cresylic, Paraffin, Sodium Silicates Advance. b-Carotene, Mercury, Methyl Methacrylate Decline.

Prices Advanced

Acid, linseed, 0.2c. per lb. (p. 65)
Blood, dried, Chicago, 25c. per unit-ton (p. 49)
Cardamom seed, Ceylon, green, 10c. per lb. (p. 58)
Celery seed, French, 1c. per lb. (p. 58)
Cinnamon, Ceylon, No. 2, 8c. per lb. (p. 58)
"0000", 6c. per lb.
Clove, Madagascar, 1c. per lb. (p. 58)
Zanzibar, 1c. per lb.
Cresylic acid, petroleum, 200-222°C., 3c. per gal. (p. 46)
220-242°C., 4c. per gal.
Cumin seed, Iranian, ½c. per lb. (p. 58)
Turkish, ¼c. per lb.
Fishmeal, $1 per ton (p. 49)
Fishscrap, $1 per ton.
Nutmeg, E. Indian, 1c. per lb. (p. 58)
Oil, castor, No. 1, Brazilian, ¼c. per lb. (p. 65)
Chenopodium, 10c. per lb. (p. 58)
Citronella, Java-type, 5c. per lb. (p. 58)
Corn, crude, ¼c. per lb. (p. 65)
refd., ¼c. per lb.
Cottonseed, crude, ¼c. per lb. (p. 65)
Guiacwood, 5c. per lb. (p. 58)
Lemongrass, 10c. per lb. (p. 58)
Linseed, 0.2c. per lb. (p. 65)
Petitgrain, 10c. per lb. (p. 58)
Soybean, crude, ½c. per lb. (p. 65)
refd., ½c. per lb.
Vetiver, Haitian, 10c. per lb. (p. 58)
Orange, cadmium lithopone, deep shade, 19c. per lb. (p. 60)
light shade, 14c. per lb.
Paraffin, ½c. per lb. (p. 64)
Poppy seed, Dutch, ½c. per lb. (p. 58)
Polish, ½c. per lb.
Sodium metasilicate, pentahydrate, 15c. per lb. (p. 38)
Silicate, liq., 40° Be, 10c. per cwt. (p. 38)
47° Be, 15c. per cwt.
52° Be, 15c. per cwt.
solid, $3 per ton.
Tungsten, metal, 15c. per lb. (p. 58)
Valonia beards, $4 per ton (p. 43)
cups, $2 per ton.
Vanilla beans, Bourbon, $1.15 per lb. (p. 58)
Mexican, cut, 25c. per lb.
whole, 75c. per lb.
Wax, microcrystalline, ½c. per lb. (p. 64)
Zinc sulfate, 36%, 25c. per cwt. (p. 38)

Prices Reduced

b-Carotene, pure, cryst., 5c. per gram (p. 51)
in oil, 1.2c. per gram.
Casein, imp., Argentine, ½c. per lb. (p. 60)
New Zealand, ½c. per lb.
Ginger, African, 1c. per lb. (p. 58)
Jamaica, No. 3, 2c. per lb.
Nigerian, 1c. per lb.
Mercury, $1 per flk. (p. 38)
Methyl methacrylate monomer, 3c. per lb. (p. 44)
Oil, olive, 50c. per gal. (p. 65)
Sandalwood, 25c. per lb. (p. 58)
Tung, ¼c. per lb. (p. 65)
Potassium stannate, 1.9c. per lb. (p. 38)
Silver, ⅞c. per oz. (p. 38)
Sodium stannate, 2.2c. per lb. (p. 38)
Soybean meal, $1 per ton
Stannic chloride, 2.3c. per lb. (p. 38)
Stannous chloride, anhyd., 3.2c. per lb.
hydrous, cryt., 2.5c. per lb.
Sulfate, 2.9c. per lb.
Tin, 5c. per lb. (p. 38)

OPD Price Index

THE OIL, PAINT AND DRUG REPORTER'S relative record of prices of chemicals and related materials is currently as follows:—

(100—1949 average)

Mar. 2, 1956	Feb. 24, 1956	Feb. 4, 1955
107.07	107.00	107.18

Oil, Paint and Drug Reporter, Vol. 169, No. 10, March 5, 1956. Published every Monday by Schnell Publishing Company, Inc., 20 Church Street, New York 7, N. Y., U. S. A. Subscription prices—United States and possessions, $5 a year; Canada and Newfoundland, $7; other countries, $10. Entered as second-class matter, January 15, 1884, at the New York Post Office under the act of March 3, 1879.
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Truckers Get Rate Hike

Midwest motor truck operators last week were authorized to raise their freight rates by 7 percent, effective February 25, by the Interstate Commerce Commission.

Operators in other sections of the country, which had scheduled similar increases, voluntarily postponed the effectiveness of the new rates pending final action on the 7 percent rate increase being sought by the railroads.

The railroad freight rate increase had been scheduled to become effective February 25, but it was postponed at the request of the ICC after several days argument to give the commission more time to consider the matter. The rate boost is now scheduled to become effective March 7.

Truck operators allowed to put the new rates into effect February 25 are those companies represented by the Middlewest Motor Freight Bureau of Kansas City, Mo. The increase is across the board.

Motor carriers which have agreed to delay putting the 7 percent increase in effect until the decision on the railroads' petition are the Southwestern Motor Freight Bureau of Dallas, Tex., Interstate Freight Carriers Conference of Los Angeles, Calif., and the Niagara Frontier Tariff Bureau, Buffalo, N. Y.

Companies represented by the Central and Southern Motor Freight Bureau, Louisville, Ky., Rocky Mountain Motor Tariff Bureau, Denver, Colo., and Southern Motor Carriers Freight Conference, Atlanta, Ga., have given notice of a 7 percent advance in their rates, to become effective between March 10 and 12.

Crane Co. and Vitro Team Up To Produce Rare, Heavy Minerals

Crane Company, Chicago, and Vitro Corporation of America, Pittsburgh, Pa., are participating in a joint operation to produce thorium, rare earths and heavy minerals from monazite, as well as rutile, ilmenite, zircon and kyanite. Frank F. Elliott, president of Crane, and J. Carlton Ward, jr., Vitro's president, have announced the signing of an agreement under which the two companies will assume equal ownership of Heavy Minerals Company, its mining subsidiary, Marine Minerals, Inc., and associated operations.

RUNS RUBBER PLANT: Fred C. Hands, made manager of the Institute, W. Va., synthetic rubber plant recently purchased from the government by Goodrich-Gulf Chemicals, Inc., Cleveland, Ohio.

By the end of 1956, the combined investment in this operation will approximate $6 million.

A subsidiary of the French chemical group of Pechiney, known as STR, continues to hold a minority interest. Heavy Minerals Company has an exclusive North American license to numerous patents held by STR on the processing of thorium, rare earths and heavy minerals.

Elliott, Ward Officials

Under the new joint operation, Mr. Elliott becomes chairman of the board of directors of Heavy Minerals Company, with Mr. Ward serving as president. Other directors are:—William H. Denne, jr., of Vitro; K. L. Karr, John P. Magos, and E. E. Wyatt, of Crane; and P. F. C. Gregory, of STR.

Heavy Minerals Company, organized by Crane in 1953, will proceed with plans to build processing facilities on a site now owned near Chattanooga, Tenn. Mark K. Wilson Company, of Chattanooga, will be the general contractor. Among other products a large quantity of monazite will be processed annually. Engineering and procurement of equipment and steel for this plant have already been largely completed.

Marine Minerals, located near Aiken, S. C., is now mining rutile for sale as a raw material in the production of titanium metal, ilmenite for sale as a raw material

—*Continued on page 70*

Acetylene Milestone Is Achieved by GAF

Manufacture of high pressure acetylene products on a full commercial scale for the first time in the United States is under way in Calvert City, Ky., at the new $6 million plant of General Aniline & Film Corporation.

The new operation is the result of fourteen years of research, pilot plant production and market development.

In announcing the start of production John Hilldring, president of General Aniline, said, "The plant represents a most important step forward in a vast new field of chemistry in this country."

Philip M. Dinkins, vice-president in

—*Continued on page 70*

3M Expansion to Cost Between $20-$30 Million

Minnesota Mining & Manufacturing Company, St. Paul, Minn., will spend between $20 million and $30 million for plants and improvements this year.

Projects under way, according to company officials, include expansion of facilities at Bedford Park, Ill., to accommodate operations of two wholly-owned subsidiaries; a new plant at Hastings, Minn., for "Thermo-Fax" brand duplicating products, and a new ribbon plant at Fairmont, Minn. The expenditures will be made entirely from company funds.

Drug Industry Seen Likely To Go Along on Public Relations Program Proposed by ADMA

Drug producers appear likely to go along with the plan for an all-industry public relations program, OPD has learned. As presented by the American Drug Manufacturers Association last week at a special meeting in New York to representatives of ten sister organizations in the health field, the scheme envisions a three-year campaign at a cost of $195,000 annually. ADMA, which is prepared to contribute $50,000 of the total, wants a like amount from the American Pharmaceutical Manufacturers' Association and $25,000 a year from the American Medical Association.

The remaining $70,000 would be made up by equal yearly contributions from the following seven associations:—American Hospital Association, American Pharmaceutical Association, Federal Wholesale Druggists Association, National Wholesale Druggists Association, National Association of Retail Druggists, Proprietary Association and the National Association of Chain Drug Stores.

DCAT Not Present at Parley

A representative of the National Pharmaceutical Council was present at ADMA's New York parley, but there was some question last week as to the NPC role, if any, in the public relations program. Drug, Chemical and Allied Trades section of the New York Board of Trade was not officially represented at the meeting.

That the subject was very much on DCAT's mind, however, was evident from the address by its chairman, Sydney N. Stokes, at that organization's annual dinner later in the week (see separate story on page 4). Mr. Stokes called for a two-edged program—to promote American products in foreign countries and to develop a way of meeting the industry's increasing need for technical manpower.

ADMA has already established a Health News Institute in New York under Chet Shaw, former managing editor of *Newsweek*. The institute, OPD was assured, will in no way overlap the activities of the Health Information Foundation.

HIF, it was pointed out, is a fact-finding organization, while the institute will

—*Continued on page 62*

TECHNICAL DIRECTOR: Dr. Herbert E. Silcox, selected as technical director of its chemical division by Merck & Co., Rahway, N. J.

Anhydrous Alcohol Unit Of USI Goes on Stream

A new anhydrous alcohol unit has just been placed on stream, according to Dr. Robert E. Hulse, general manager of the U. S. Industrial Chemicals Company Division of National Distillers Products Corporation, and subsidiary National Petro-Chemicals Corporation, New York.

Located at National Petro's plant at Tuscola, Ill., where it is integrated with the synthetic alcohol production facilities, output of the new unit will be distributed by USI.

Probably the largest anhydrous unit ever built, its production will supplement that of existing USI anhydrous alcohol plants at Anaheim, Calif., and New Orleans, La. Output of the three plants will be shipped from USI's Tuscola, Chicago, Newark, Anaheim and New Orleans denaturing plants and from USI warehouse points throughout the country.

It will be available as pure anhydrous alcohol, completely and specially denatured anhydrous alcohol and anhydrous "Solox" and "Filmex," two of USI's proprietary denatured alcohol solvents.

Nat'l Drug Merger Voted

Stockholders of National Drug Company, Philadelphia, have approved a plan to turn over the firm's properties and business to Vick Chemical Company by a straight share-for-share exchange of stock. The properties turned over to Vick will continue to operate as that company's National Drug division.

Hidalgo Completing Rehabilitation Work

Looking toward the start of production operations sometime in April, the rehabiliation program at Hidalgo Chemical Company's Brownsville, Tex., plant has entered its final stages.

L. L. Smith, chemical plant manager, said that all equipment has now arrived at the plant, and crews are proceeding with installation of internals in the reactors to complete the modification process. He indicated that the reactors would be finalized within six weeks, and said that preliminary tests would begin immediately after completion of the installation work.

The reactors form one of the critical phases of the modified Fischer-Tropsch process on which the plant design is based. It is in these vessels that the synthesis gas is exposed to an iron catalyst and converted into two basic raw product streams—one comprised of chemicals and the other of liquid fuels.

Meanwhile, other sections of the plant

—*Continued on page 71*

Ethylene Plant in Bayway Planned by Esso Standard

Esso Standard Oil Company will construct a new plant for the production of ethylene at its Bayway refinery, Linden, N. J. Construction will start in the near future and completion is expected by the latter part of 1956.

The plant will be the first on the east coast to produce concentrated ethylene for sale to the chemical industry, it was reported.

Nitrogen Solution Boost Is Projected in Canada

North American Cyanamid, Ltd., this year will double facilities for the production of "Amanol" nitrogen solutions at its Welland plant, Niagara Falls, Ont., Canada. The company is also modifying its equipment for manufacturing anhydrous ammonia to achieve greater capacity.

North American Cyanamid's Welland plant began producing nitrogen solutions last spring and was the first plant in Canada to move into this field. Previously, this type of fertilizer was imported from the United States.

Metals Supply Rise Seen Via New Chemical Process

A new high temperature chemical process has been developed which, it is claimed, can vastly increase this nation's usable supply of such critical metals as uranium, beryllium, lithium and manganese.

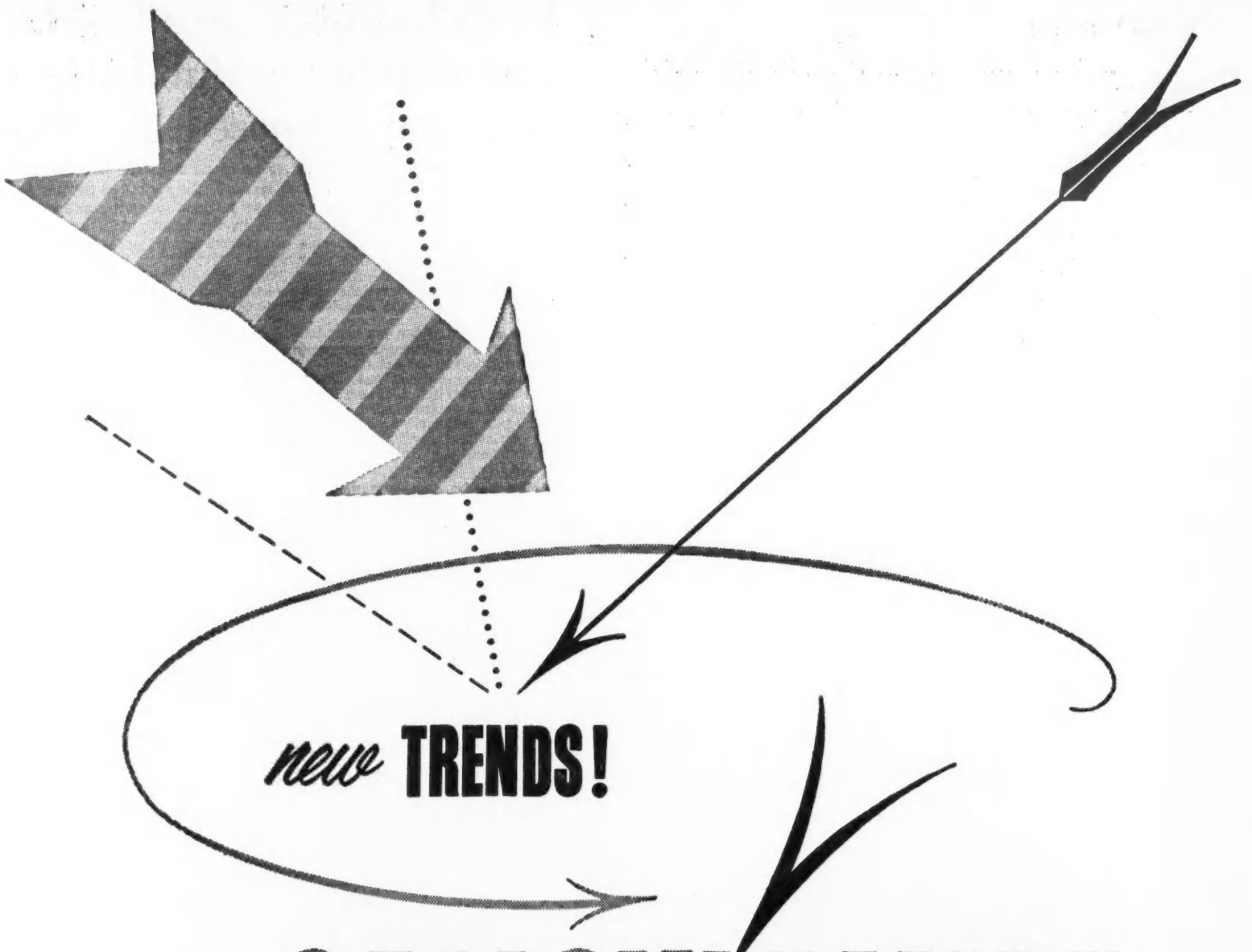
As described last week at Polytechnic Institute of Brooklyn by Dr. Samuel Korman, industrial research scientist, the new process is carried out in an electric arc at sun temperatures ranging from 13,000° to 18,000°F.

The sun temperatures, according to Dr. Korman, are attained by bombarding an ore target with an electron stream of such high intensity that it results in the vaporization of even the most heat-resistant and unmanageable materials.

The ores are vaporized almost instantaneously under the electronic assault and expand in vaporous forms at 100 miles per hour speeds. The vapors are then collected, and the desired metals may be separated by conventional chemical means.

By means of the high intensity arc process, it is explained, ores like rhondonite, spodumene, ilmenite, euxenite, beryl and many others are first decomposed directly to a mixture of simple metallic oxide. The products can then be selectively dissolved or separated by simple physical means.

The high intensity arc was discovered in Germany in 1910. It has also been developed in this country for use in searchlights. Dr. Korman's process reputedly is its first metallurgical application.



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Association Meetings

Commercial Chemical Development Association, Statler hotel, New York, March 8.

American Chemical Society, national meeting, Dallas, Tex., April 13; Minneapolis, Minn., September 11.

American Drug Manufacturers Association, annual meeting, Greenbrier hotel, White Sulphur Springs, W. Va., April 29-May 3.

American Institute of Chemists, annual meeting, Statler hotel, Boston, Mass., May 9-11.

American Pharmaceutical Manufacturers Association; annual meeting, Boca Raton Club, Boca Raton, Fla., April 9-11.

American Society of Perfumers, symposium, Essex House, New York, March 21.

American Zinc Institute, annual meeting, Statler hotel, St. Louis, Mo., April 23-24.

Association of Consulting Chemists and Chemical Engineers, banquet and symposium, Belmont Plaza hotel, New York, April 25.

Chemical Bureau Alumni Association, spring get-together, Lexington hotel, New York, April 26.

Chemical Market Research Association, annual meeting, Biltmore hotel, New York, May 14-15.

Chemical Progress Week, April 23-28.

Chemical Specialties Manufacturers Association, mid-year meeting, Drake hotel, Chicago, May 20-22.

Combined Pharmaceutical Contact Committee of the American Drug Manufacturers Association and the American Pharmaceutical Manufacturers Association, Washington hotel, Washington, D. C., March 13-14.

Council for Agricultural and Chemurgic Research, annual conference, Congress hotel, Chicago, April 10-12.

Drug, Chemical and Allied Trades Section of the New York Board of Trade, annual outing, Pocono Manor Inn, Pocono Manor, Pa., September 27-29.

Federal Wholesale Druggists Association, annual convention, Greenbrier hotel, White Sulphur Springs, W. Va., September 16-19.

Federation of Paint and Varnish Production Clubs, annual meeting, Cincinnati, Ohio, October 21-24.

Kentucky Fertilizer Conference, University of Kentucky, Lexington, Ky., August 1.

Manufacturing Chemists' Association, annual meeting, Greenbrier hotel, White Sulphur Springs, W. Va., June 7-9.

Metal Powder Association, annual meeting, show, Cleveland hotel, Cleveland, Ohio, April 10-12.

National Agricultural Chemicals Association, spring meeting, Hollywood Beach hotel, Hollywood, Fla., March 14-16.

National Association of Chain Drug Stores, annual meeting, Hollywood Beach hotel, Hollywood Beach, Fla., May 1-4.

National Association of Retail Druggists, annual convention, Netherlands Plaza and Sheraton-Gibson hotels, Cincinnati, Ohio, September 17-21.

National Cottonseed Products Association, annual convention, Statler Hilton hotel, Dallas, Tex., May 21-22.

National Paint, Varnish and Lacquer Association, annual convention, Statler, Ambassador and Biltmore hotels, Los Angeles, November 12-14.

National Plastics Exposition, sponsored by Society of Plastics Industry, New Coliseum, New York, June 11-15.

National Soybean Processors Association, joint meeting with American Soybean Association, Cincinnati, Ohio, August 29.

Oil Trades Association of New York, annual meeting, Waldorf-Astoria hotel, New York, March 13.

Pharmaceutical Council of Greater New York, drug, cosmetic and sundry show, Statler hotel, New York, September 23-25.

Proprietary Association, annual meeting, Hollywood Beach hotel, Hollywood, Fla., May 7-9.

Salesmen's Association of the American Chemical Industry, luncheon, Waldorf-Astoria hotel, New York, March 15.

Society of Chemical Industry, chemical industry medal presentation, Waldorf-Astoria hotel, New York, April 27.

Synthetic Organic Chemical Manufacturers Association, monthly luncheon meeting, Roosevelt hotel, New York, March 13; annual outing, Skytop Lodge, Skytop, Pa., May 16-18; annual meeting and dinner, Biltmore hotel, New York, December 3.

Toilet Goods Association, annual meeting, Waldorf-Astoria hotel New York, May 15-17.

AIChE Told Business Key Is to Undertake New Ventures, Abandon Unprofitable Ones

If modern industry is to remain dynamic, management must not only undertake new ventures to keep up with competition, but it must also know when to abandon unsatisfactory operations, according to Dr. Norman W. Krase of the development department of E. I. duPont de Nemours & Co., Wilmington, Del., in a speech given before the national meeting of the American Institute of Chemical Engineers, at the Statler hotel, Los Angeles.

Essential improvement "results from steady addition of new, attractive ventures and discontinuance of those established operations that are no longer satisfactorily profitable," Dr. Krase said.

"In this way, a company maintains a dynamic character, minimizing the effect of product and process obsolescence that is so prominently a feature of the process industries."

"How does management decide whether or not to invest in a new chemical plant?" Chemical engineers, J. B. Weaver and R. J. Reilly of the Atlas Powder Company proposed a new theory for answering this question.

In the past, profitability or earning power of a new project has always been measured by the rate of return on investment or else the number of years required for the accumulated profits to recover the money invested.

Both of these methods forget such things as construction delays, slow sales until the product becomes known, and other unpredictable set-backs causing loss

—Continued on page 62

RESIGNS FROM AMES: Paul de Haen, who has resigned as vice-president and director of Ames Company, Elkart, Ind., to open a New York office as a consultant to the pharmaceutical industry.

Pfizer Introduces New Dimethyl Ester of ADA

Chas. Pfizer & Co., Brooklyn, N. Y., this week makes available in pilot plant quantities a new fermentation chemical, DMADA, the dimethyl ester of acetonedicarooxylic acid (ADA).

According to Paul E. Weber, sales manager of Pfizer's chemical sales division, DMADA is a relatively stable compound which does not need refrigeration during storage. It is soluble in methanol, chloroform, benezne and ethyl acetate and insoluble in water and hexane.

Mr. Weber said that moisture or traces of acid or alkali would accelerate decomposition of the compound.

DMADA forms tightly bound brightred iron chelates, he said, which are soluble in certain non-aqueous media. With copper, he added, an insoluble salt is formed.

Now available at a lower price than the parent acid, ADA, the dimethyl ester is considered an even more multi-purposed intermediate than the free acid, Mr. Weber pointed out.

Pyridinium Salt Cut

Hooker Electrochemical Company, Niagara Falls, N. Y., has announced a price reduction of 15 cents per pound on lauryl pyridinium chloride. The new prices for 375-pound barrels are $1.10 per pound in carlots and $1.11 per pound in less carlots. In 100-pound barrels, prices are 5 cents per pound higher.

Antibiotics Growth In Cosmetics Foretold

Antibiotics may well establish themselves as effective ingredients in cosmetic preparations, the Society of Cosmetic Chemists was told in New York last week by Carl P. Hetzel, research scientist of Chas. Pfizer & Co., Brooklyn, N. Y.

Such antibiotics as polymyxin, bacitracin and neomycin suggest themselves for use in cosmetic creams and lotions for the prevention of bacterial infections commonly associated with acne, pimples and other superficial skin conditions, Mr. Hetzel contended.

He felt that these antibiotics would probably also be useful in deodorants to combat odor-producing bacteria and in germicidal soap products.

Polymyxin, neomycin and bacitracin already have proved themselves to be useful topical agents in dermatological practice, Mr. Hetzel pointed out, adding that topical ointments, as well as a number of other topical preparations containing these antibiotics, may now be sold over the counter.

In outlining the potential use of antibiotics in cosmetics, Mr. Hetzel explained

—Continued on page 62

Soybean Exports Hit Record, Oils Showed Strength Last Year

Exports of soybeans from the United States in 1955 set a new record of 67,289,000 bushels, according to the Foreign Agricultural Service. This was an increase of 56 percent over 1954. Soybean oil exports amounted to 68,976 tons, crude oil basis, and were 78 percent greater than in 1954 but were 27 percent below the record 257,875 tons exported in 1951. Bean shipments as such represented 84 percent of the total bean and oil exports, which aggregated 79,900,000 bushels, bean equivalent basis. This total was 58 percent larger than in 1954 and three percent above the previous record reached in 1951.

GETS PRODUCTION POST: Frederick W. Pape, named assistant manager of production for Lederle Laboratories Division, American Cyanamid Company, Pearl River, N. Y.

The heavy exports of soybeans in 1955 reflected a strong world demand for fats and oils and relatively low prices for soybeans in the latter half of the year.

Also, German restrictions on imports of oilseeds for dollars were removed in May. Japan continued to be the major market for United States soybeans, taking a record volume of 21,937,000 bushels or almost one-third of the total exports.

Shipments to Europe at 31,313,000 bushels were double those of the previous year and accounted for almost one-half the total. The major European markets were

—Continued on page 40

Imperial Paper to Produce Line of Pigments in Canada

Imperial Paper & Color Corporation, Glens Falls, N. Y., has announced its plans to manufacture a line of chemical pigment colors in Canada. A subsidiary Canadian corporation is being formed and a plant has been purchased in St. Johns, Quebec.

Plans are being made to manufacture many of the same basic pigments that Imperial Paper is now making in its Glens Falls plant. The colors now being made in Glens Falls are currently being sold in Canada through Imperial's subsidiary, Glens Falls Color Export Corporation, a western hemisphere sales organization.

Production will be started as soon as the special equipment necessary for the manufacture of modern colors can be installed in the St. Johns buildings.

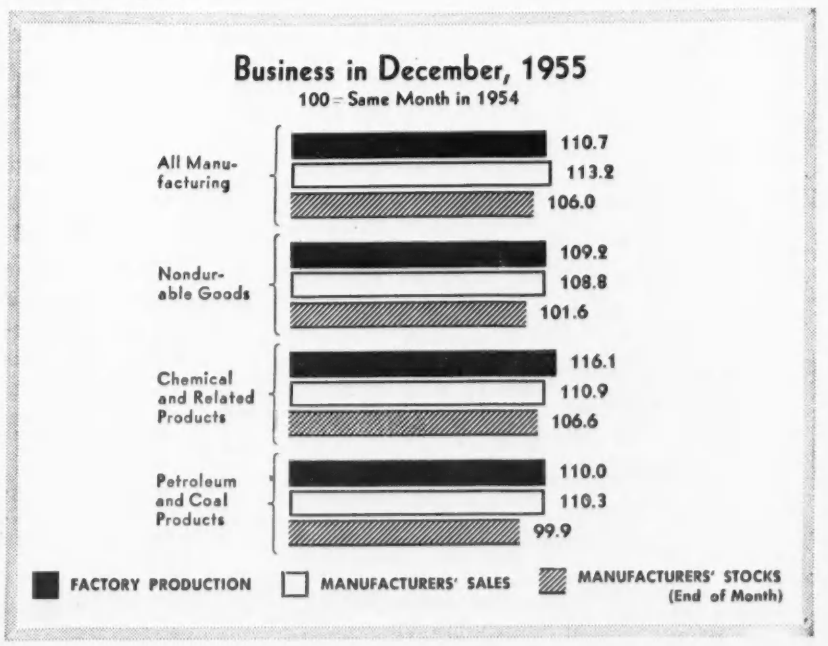
It is expected that ultimately the Canadian corporation will take over most of the sales now handled by the Glens Falls Color Export Corporation.

Alcohol Tax Bid For Refunds Denied

The alcohol and tobacco tax unit of the Internal Revenue Service ruled last week that claims for refunds of taxes paid on distilled spirits lost after tax-payment but prior to removal from an internal revenue bonded warehouse will be disallowed.

The agency explained that section 5006

—Continued on page 62



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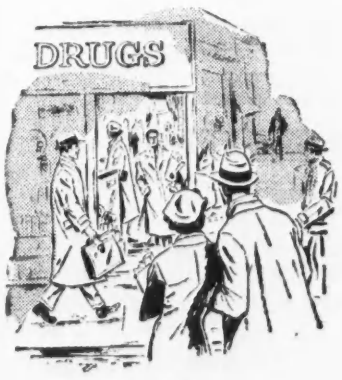

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Current MARKET Quotations

Unless otherwise indicated, listings are first-hand quotations prevailing, according to information and belief, March 2 on large lots, f.o.b. New York, with the lowest in the left-hand column and the highest in the right-hand column. The listings do not represent bid and asked prices nor a range over the week. Differences between high and low may be accounted for by differences in quantity, quality, locality, or individual suppliers' views. An index to the weekly market reports is to be found on page 4.

A

Acacia (see Gum arabic).
Acenaphthene, below 92.5 C., m.p., dms., works lb. .40 - —
above 92.5 C., m.p. bbls., dms., works lb. .41 - .50
Acetaldehyde 99% dms. c.l., dlvd. lb. .12 - —
l.c.l., dlvd lb. .13½ - —
tanks, dlvd lb. .10 - —
Acetaldol (see Aldol).
Acetanilide, tech., flaked, bbls., bgs., c.l., frt. alld lb. .29 - —
ton lots lb. .30 - —
smaller lots lb. .33 - —
USP, bbls. 2,000-lb lots lb. .80 - —
smaller lots lb. .81 - .89
Acetic anhydride, dms., c.l., dlvd. E. lb. .15½ - —
l.c.l., dlvd. E lb. .17 - —
tanks, dlvd. E lb. .14 - —
Acetoacetanilide, fib. dms., c.l., dlvd lb. .80 - —
l.c.l., dlvd lb. .81 - —
Acetoacet-o-chloroanilide, fib. dms., c.l., dlvd lb. 1.35 - —
l.c.l., dlvd lb. 1.36 - —
Acetoacet-o-toluidide, fib. dms., c.l., dlvd. lb. .82 - —
l.c.l., dlvd lb. .83 - —
Acetone, CP, dms., c.l., dlvd. lb. .09 - —
l.c.l., dlvd lb. .10 - —
tanks, dlvd lb. .07 - —
Methyl (see Mt.
Acetonitrile, dms., c.l., works lb. .45 - —
l.c.l., works lb. .47 - —
Acetophenetidin, USP, bbls., works, frt. equald lb. 1.17 - 1.19
Acetophenole, cns., dms lb. 1.21 - 1.83
tech., dms., l.c.l., works lb. .75 - —
N-Acetyl-p-aminophenol, dms., frt. adjusted lb. 1.75 - 1.83
Acetyltributyl citrate, tech., non-ret. dms., c.l., frt. alld. E. of Denver lb. .36 - —
l.c.l., frt. alld. E. of Denver lb. .33 - —
tanks frt. alld. E. of Denver. lb. .33 - —
Acetyltriethyl citrate, tech., non-ret dms., c.l., frt. alld. E. of Denver lb. .39 - —
l.c.l. frt. alld E. of Denver. lb. .40 - —
tanks, frt. alld. E. of Denver. lb. .37 - —
Acetyltri-2-ethylhexyl citrate, non-ret. dms., frt. alld lb. .60 - —
Acid, abietic, coml., dms., c.l., works lb. .12 - —
l.c.l., ex whse lb. .1490- —
cryst., dms., c.l works lb. .06½- —
l.c.l., works lb. .07 - .07½
Acetic, coml., or redist., 28%, bbls. 100 lbs. 4.80 - —
56%, bbls 100 lbs 6.25 - —
70%, bbls 100 lbs. 9.95 - —
80% bbls 100 lbs. 10.45 - —
glacial, syn., CP, dms., dlvd. 100 lbs. 15.00 -16.00
tech. dms., c.l., dlvd 100 lbs. 12.00 - —
l.c.l., dlvd 100 lbs. 13.00 - —
tanks, dlvd 100 lbs. 10.00 - —
USP cbys., inclusive, dlvd., 100 lbs. 24.00 -25.00
Acetic anhydride (see Acetic anhydride above).
Acetylsalicylic, USP, special, makers, primary distrib., bbls., 1,000-lb lots, point of shipt lb. .61 - —
standard, fine, cryst., gran., (30-40 mesh) powd., (60 mesh) bbls. 1,000-lb. lots. lb. .56 - .58
Freight equald, shipt. identical quantity over standard routes, from N. Y., Phila., Midland, Mich., Chicago and St. Louis.
Adipic, bgs., c.l., dlvd lb. .33 - —
l.c.l., dlvd lb. .37¾- —
Aminoacetic, NF, bbls., frt. adjusted lb. 1.50 - 1.73
p-Aminobenzoic, tech., dms., works lb. 1.74 - 1.77
USP dms., 1,000-lb lots or more, works lb 2.30 - —
smaller lots, works lb 2.53 - 2.60
p-Aminosalicylic, dms., 1,000-lb. lots or more, frt. adjusted lb. 4.25 - —
smaller lots, same basis lb. 4.30 - 4.75
Anthranilic, 99%, 150-lb. dms., dlvd. lb. 1.10 - —
Arsenous, tech. (see Arsenic, white).
USP (see Arsenic trioxide).
Ascorbic USP, dms., 25-100 kilo lots kilo 12.00 - —
10-kilo lots kilo. 12.35 - —
5-kilo lots kilo. 12.75 - —
bots, 1-kilo lots kilo. 13.00 - —
300-gram lots kilo. 13.50 - —
Battery, cbys., c.l., works, E. 100 lbs. 2.35 - —
l.c.l., works, E 100 lbs. 2.65 - 3.45

Acacia—Acid, L

Acid, benzoic, tech., bbls., dms., 100-lb. lots or more lb. .44 - —
USP, bbls., dms., 100-lb. lots or more lb. .54 - —
Betahydroxynaphthoic (see Acid, b-Oxynaphthoic).
Betaoxynaphthoic (see Acid b-Oxynaphthoic).
Boric, tech., 99.9%, cryst., bgs., c.l., works ton. 126.75 - —
ton lots, ex whse, N. Y. or Chi ton. 116.50 - —
smaller lots, same basis. ton. 181.50 - —
dms., c.l., works ton. 151.25 -172.23
ton lots, ex whse, N. Y. or Chi ton. 201.00 -222.00
smaller lots, same basis. ton. 206.00 -227.00
gran., bgs., c.l., works ton. 101.75 - —
ton lots, ex whse, N. Y. or Chi ton. 151.50 - —
smaller lots, same basis. ton. 156.50 - —
dms., c.l., works ton. 126.25 -147.23
ton lots, ex whse, N. Y. or Chi ton. 176.00 -197.00
smaller lots, same basis. ton. 181.00 -202.00
bulk, c.l., works ton. 95.75 - —
ton. 161.50 - —

Acid, boric, tech., 99.9%, powd., bgs., c.l., works ton. 106.75 - —
ton lots, ex whse, N. Y. or Chi ton. 156.50 - —
smaller lots, same basis. ton. 161.50 - —
dms., c.l., works ton. 131.25 -152.25
ton lots ex whse., N. Y. or Chi ton. 181.00 -202.00
smaller lots, same basis. ton. 186.00 -207.00
Boric acid in kegs $45.50 per ton higher than in paper bgs. USP boric Acid $25 per ton higher.
Broenners, bbls lb. 1.76 - —
Butyric, 99%, dms., c.l., works lb. .34 - —
l.c.l., works lb. .34½- —
tanks, works lb. .32½- —
Capric, dms lb. .24 - .26
Caprylic, dms. lb. .24 - .26
Cassella dms. frt alld., 100% basis lo. 1.44 1.75
Castor oil, split, dms lb 35½ .36
Chicago, bbls frt alld lb 3.21 —
Chloroacetic, mono purif., flake, 99% dms lb. 23½ 25¼
tech. flake 96-97%, dms., frt. equald lb. .20 - .21
o-Chlorobenzoic, fib. dms., t.l., works lb. 1.10 - —
smaller lots, works lb. 1.25 - —

Acid, p-chlorobenzoic, fib. dms., works lb. 1.59 - 1.68
Chlorosulfonic, dms., c.l., frt. equald lb. .0463- —
l.c.l., frt. equald lb. .0515- —
tanks, frt. equald lb. .0415- —
Acid, chlorosulfonic, in stainless steel dms. ½c. per lb. higher.
Chromic, 99¾%, dms. c.l., works, frt. equald lb. .28½- —
l.c.l., dlvd., N. Y. metropolitan area lb. .29 - .30
NF (see Chromium trioxide).
Cinnamic, refd., bots lb. 2.50 - 3.50
Citric, USP anhyd. gran., fine gran., bgs., dms., c.l. lb. .29½- .30
10,000-lb lots, 1 shipt. lb. .30 - .30½
smaller lots lb. .30½- .31
hydrous, gran., fine gran., bgs., dms., c.l lb. .27½- .28
10,000-lb lots, 1 shipt. lb. .28 - .28½
smaller lots lb. .29 - .29½
Powdered citric acid ½c. higher.
Cleve's, mixed, bbls lb. .79 —
Coconut oil, dist., dms. lb. .23¾- .25¾
tanks lb. .21¾- —
dbl. dist., dms. lb. .23¾- .26¾
tanks lb. .21¾- .22¾
Corn oil, dist., dms. lb. .15¾- .17¾
tanks lb. .13¾- —
Cottonseed oil, dist., dms. lb. .15¼- .17¼
tanks lb. .13¼- —
2,3-Cresotic, dms. ton lots, works lb. .70 - —
less than ton lots, works lb. .72 - —
Cresylic, coaltar dom., 99% 207 C or above, resin and tricresyl phosphate grade, tanks, frt. equald gal. 1.10 - —
50% 210° C. or above, total range over 9° C., non-resin grade, dms., c.l., same basis gal. 1.13 - —
l.c.l., same basis gal. 1.19 - —
tanks, same basis gal. 1.00 - —
50% 204° to 207° C., tricresyl phosphate and resin grade, tanks, same basis gal. 1.20 - —
Imp., 75% at 215 C., or over, dms., ex whse gal. .85 1.00
petroleum, dom., 195° to 214°C., non-ret. 65 dms. to c.l., works, San Francisco and Los Angeles gal. .80 - —
l.c.l., same basis gal. .82 - .84
tanks, works frt alld. E. gal. .65 - —
200° C. to 222° C., tanks, Wilmington, Cal lb. .65 - .72
211° C to 257° C., non-ret. dms., c.l., San Francisco and Los Angeles gal. .76 - —
l.c.l., same basis gal. .78 - .80
tanks, same basis gal. .61 - —
220° C. to 242° C., tanks, Wilmington, Cal lb. .62 - .67
245° C. to 295° C., tanks, Wilmington, Cal gal. .50 —
Crotonic, fib dms., 200 lbs or more, contained, works lb. .50 - —
Cyanoacetic, tech., bbls lb. .90 - 1.25
Dichlorophenoxyacetic (see 2,4-D).
Diethylbarbiturie (see Barbital).
Diglycolic, bgs., works lb. .14 - —
2-ethyl hexoic, dms., c.l., dlvd lb. .36½- —
l.c.l. dlvd. lb. .37½- —
tanks, dlvd lb. .34½- —
F, crude, paste, bbls, works lb. 2.10 —
Folic, bots, fin cns, kilo-lots or more gram 1.40 - —
Formic, 85%, cbys., c.l., works lb .1570- —
l.c.l., works lb. .1620- .1720
90%, cbys., c.l., works lb. .1625- —
l.c.l., works lb. .1675- .1775
Fumaric, tech., bgs., dms., c.l., frt. alld. E lb. .25½- —
l.c.l., same basis lb. .26½- —
Gallic, NF VII, bbls. 1,000-lb lots lb. 1.80 —
smaller lots lb. 1.82 - 2.00
tech., bbls., 1,000-lb lots lb 1.58 —
smaller lots lb. 1.82 2.00
Gamma, dry, grd. bbls., frt. alld. lb. 1.50 - —
paste, bbls., frt alld lb 1.45 —
Gentisic, 100-lb fib dms lb 8.50 —
Gluconic, tech., 50% bots lb. .23 .33
cbys. lb. .19 —
dms. lb. 15½- —
l-Glutamic, 99½% fib dms., 100-lb. lots, works lb. 2.00 - —
25-lb. lots, works lb. 2.09 - —
Glycerophosphoric, 35%, dms., works lb. 2.25 2.33
Glycolic (see Acid hydroxyacetic).
H, dry, bbls., c.l., works, 100% basis lb. 1.00 - —
l.c.l., same basis lb. 1.02 - —
Hydriodic, 1.50 s.g., cbys lb. 2.94 - —
1.70 s.g., cbys lb. 3.23 - —
Hydrobromic, medicinal, 48%, cbys., dlvd. E lb. .37 - .43
Hydrochloric, anhyd (see Hydrogen chloride).
18° cbys., c.l., works 100 lbs. 2.50 - —
l.c.l., dlvd Metropolitan area 100 lbs. 2.90 3.05
tanks, works, frt equald ton. 28.00 - —
20° cbys., c.l., works 100 lbs. 2.75 - —
l.c.l., dlvd Metropolitan area 100 lbs. 3.15 - —
tanks, works, frt. equald ton. 30.00 - —
22°, cbys., c.l., works 100 lbs. 3.25 - —
l.c.l. dlvd Metropolitan area 100 lbs. 3.65 - —
tanks, works, frt. equald ton. 35.00 - —
CP, USP, consumers, cbys., extra c.l. works lb. 11¾- —
l.c.l., same basis lb. .13¾- .13¾
5-pint bots., extra, c.l., same basis lb. .16¾- —
l.c.l. same basis lb. .18¼- .19½
Acid, hydrochloric, CP, USP, prices to dealers 1½c. per lb. less.
Hydrocyanic, cyls. frt alld lb. 75 .85
dilute NF, 2%, 5-lb. bots lb. .40 - —
Hydrofluoric, anhyd. (see Hydrogen fluoride).
aqueous, tanks, works lb. .21 - —
70%, steel, dms., works lb. .18½- .22½
Hydrofluosilicic, dms., works, 30% basis lb. .06 - —
Hydroxyacetic, tech., 70%, non-ret bbls., Phila., 100% basis lb. .136 —
tanks, Belle, W. Va., 100% basis lb. .093 —
Hypophosphorus, purif., 50%, cbys lb. 1.30 - 1.32
USP, cbys. lb. .88 - —
Isonicotinic, 100-lb. fib. dms., works lb. 5.00 - —
Hydrazide (see Isoniazid).
Itaconic, fib dms., c.l., works lb. .59 - —
l.c.l., works lb. .60 - —
J, paste bbls., works, 100% basis. lb. 2.45 - —
powd., bbls., same basis lb. 2.50 - 2.85
Koch, bbls., frt. alld., 100% basis. lb. 1.00 - —
L, bbls., works lb. 1.25 —

Abbreviations

Used in OPD Market Quotations

alld.	allowed	distr.	distributor	NNR	New and Nonofficial Remedies
amorph.	amorphous	djns.	demijohns	No.	number
AMP	American melting point	divd.	delivered	nom.	nominal
anhyd.	anhydrous	dms.	drums	o-	ortho
a.p.a.	available phosphoric acid	dom.	domestic	ord.	ordinary
approx.	approximately	E.	east	oz.	ounce
artif.	artificial	e.p.	end point	p-	para
ASTM	American Society for Testing Materials	equald.	equalized	Pac.	Pacific
Atl.	Atlantic	exp.	expressed	pf.	proof
Be.	Baume	F.	fahrenheit	phos.	phosphate
bbls.	barrels	ferment.	fermentation	photo.	photographic
bgs.	bags	f.f.a.	free fatty acid	pkgs.	packages
bls.	bales	f.f.c.	free from chlorine	powd.	powdered
bots.	bottles	fib.	fiber	precip.	precipitated
b.p.	boiling point	f.o.b.	free on board	prod.	producer
b.p.l.	bone phosphate of lime	f.p.a.	free of prussic acid	pt.	point
b.r.	boiling range	frt.	freight	pulv.	pulverized
bxs.	boxes	gal.	gallon	purif.	purified
C.	centigrade	gran.	granular	redist.	redistilled
cbys.	carboys	grd.	ground	refd.	refined
CD	completely denatured	i.&a.	iron and aluminum	refy.	refinery
c.i.f.	cost, insurance, freight	i.b.p.	initial boiling point	reg.	regular
cks.	casks	imp.	imported	resub.	resublimed
c.l.	carlots	incl.	included	ret.	returnable
cns.	cans	indust.	industrial	SD	specially denatured
coml.	commercial	kgs.	kegs	s.d.	single distilled
conc.	concentrated	l-	laevo	S. E.	southeast
CP	chemically pure	lacq.	lacquer	sec.	secondary
cps.	centipoises	lb	pound	secs.	seconds
cryst.	crystal	l.c.l.	less than carlots	s.g.	specific gravity
cs.	cases	l.t.l.	less truckload	ship't	shipment
ctns.	cartons	liq.	liquid	soln.	solution
cyls.	cylinders	mfrs.	manufacturers	s.u.	standard unit
d-	dextro	m-	meta	syn.	synthetic
dbl.	double	m.a.p.	mixed aniline point	tanks.	railroad tankcars
denat.	denatured	min.	minimum	tech.	technical
dest-dist	destructive-distilled	m.p.	melting point	tert-	tertiary
dl-	dextro-laevo	N-	nitrogen	t.l.	truck loads
dist.	distilled	n-	normal	t.w.	tank wagons
distr.	distributor	nat.	natural	USP	U. S Pharmacopoeia
djns.	demijohns	neut.	neutral	vis.	viscosity
divd.	delivered	NF	National Formulary	VM&P	varnish makers & painters
dms.	drums			W.	west
dom.	domestic			whse.	warehouse
E.	east			w w	water-white
e.p.	end point				
equald.	equalized				
exp.	expressed				

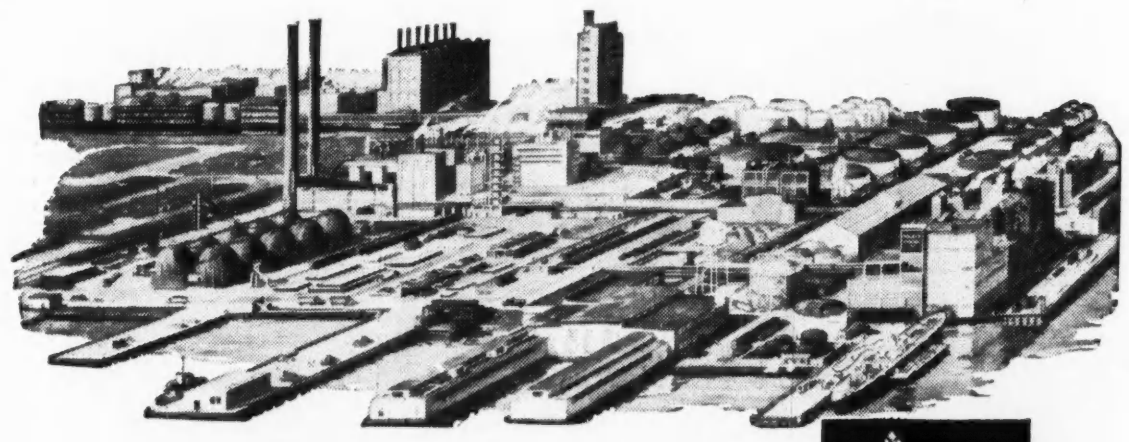
A unit-ton is 2,000 pounds of 1 percent of the basic constituent or other standard of the material. The percentage figure of the basic constituent multiplied by the price figure shown gives the price of 2,000 pounds of the material.

Acid, lactic, edible, 50%, bbls., 20 or more lb. .1754- .215
smaller lots lb. .1854- .225
80%, bbls., 5 or more lb. .3054- .37
smaller lots lb. .3104- .375
plastic grade, 50%, bbls., 20 or more, works lb. .23 - —
1 to 19 lb. .235 - —
80%, bbls., 5 or more lb. .385 - —
tech., 22%, bbls., c.l., works 100 lbs. 6.30 - —
l.c.l., works 100 lbs. 6.70 - —
cbys., l.c.l., works 100 lbs. 12.20 - —
44%, bbls., c.l., works 100 lbs. 11.45 - 11.95
l.c.l., works 100 lbs. 11.85 - 12.35
USP, 85%, cbys. lb. .85 - .88
Laurent's, bbls lb. .60 - —
Lauric, 90%, dms lb. .25½- .37½
Linseed oil, dist., dms lb. .2150- —
w.w., dms. lb. .2450- —
Maleic, cryst., powd., dms lb. .37 - .38
Malic, tech., dms lb. .50 - —
Mandelic, NF, dms., 1,000-lb. lots, lb. 2.35 - —
smaller lots lb. 2.40 - 2.50
Metanilic, dms., works lb. .57 - .75
Methacrylic, glacial, 98%, dms., truckloads, works lb. .54½- —
smaller lots, works lb. .55 - —
Molybdic, 85%, dms., works lb. 1.15 - —
Monochloroacetic, purif. (see Acid, Chloroacetic, mono-).
Muriatic (see Acid, hydrochloric).
Myristic, dms lb. .25 - .27

Acid, 1-Naphthol-4-sulfonic (see Acid, Neville and Winthers).
1-Naphthol-5-sulfonic (see Acid, L).
1-Naphthol-5-sulfonic, 8-amino (see Acid, S)
1-Naphthol-3,6-disulfonic, 8-amino (see Acid, H).
2-Naphthol-6,8-disulfonic (see Acid, Gamma).
5-Naphthol-7-sulfonic, 2-amino (see Acid, J).
Naphtholsulfonic, mixed (see Acid, Cleve's).
1-Naphthylamine-5-sulfonic (see Acid, Laurent's).
2-Naphthylamine-4,8-disulfonic (see Acid, Casella).
2-Naphthylamine-6-sulfonic (see Acid, Broenner's).
2-Naphthylamine-7-sulfonic (see Acid, F).
2-Naphthylamine-1-sulfonic (see Acid, Tobias).
Neville and Winther's, dms., frt. alld lb. 1.20 - —
Nicotinic, USP, dms., dlvd lb. 8.00 - 8.30
Amide, USP (see Nicotinamide).
Nitric, 36° Be, cbys., c.l., works, E 100 lbs. 5.75 - —
l.c.l., works, E 100 lbs. 6.05 - 6.85
38° Be, cbys., c.l., works, E 100 lbs. 6.25 - —
l.c.l., works, E 100 lbs. 6.55 - 7.35
40° Be, cbys., c.l., works, E 100 lbs. 6.75 - —
l.c.l., works, E 100 lbs. 7.05 - 7.85
42° Be, cbys., c.l., works, E 100 lbs. 7.25 - —
l.c.l., works, E 100 lbs. 7.55 - 8.35
58.5 to 68% HNO_3, tanks, works, 100% basis 100 lbs. 3.90 - —
94½ to 95½% HNO_3, tanks, works, 100% basis 100 lbs. 4.90 - —

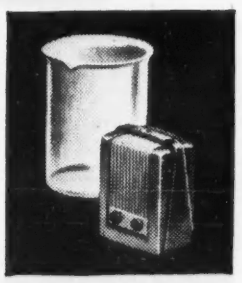
Acid, nitric, CP, NF, consumer, cbys., extra, c.l., works lb. .13¼- —
l.c.l., same basis lb. .11¼- .11¾
5-pt. bots., extra, cs., c.l., same basis lb. .17½- —
l.c.l., same basis lb. .14¾- .20¾
p-Nitrobenzoic, dms., c.l., works lb. .72 - —
l.c.l., works lb. .73 - —
Oleic, s.d., dms. lb. .18 - .20
tanks lb. .16 - —
dbl. dist. (white), dms. lb. .20 - .22
tanks lb. .18 - —
Oleum (see Acid, sulfuric, fuming).
Orthochlorobenzoic (see Acid, o-Chlorobenzoic).
Orthocresotinic (see Acid, 2,3-Creosotic).
Oxalic, bbls., c.l., works lb. .16½- —
10,000-lb. lots, works lb. .16¾- —
smaller lots, works lb. .17¾- —
b-Oxynaphthoic, fib. dms., 250 lbs. or more, dlvd lb. 1.14 - 1.17
Palm, dist., dms. lb. .14¼- .16¼
tanks lb. .12¼- —
Para-aminobenzoic (see Acid, p-Aminobenzoic).
Para-aminosalicylic (see Acid, p-Aminosalicylic).
Parachlorobenzoic (see Acid, p-Chlorobenzoic)
Paramethylphenylcinchonic (see Neocinchophen)
Paranitrobenzoic (see Acid, p-Nitrobenzoic)
Paratoluidinmetasulfonic (see Acid, p-Toluidine m-sulfonic)
Phenylacetic, pure, cryst., cns. lb. .75 - 1.70
Phenylcinchoninic (see Cinchophen).
Phenylglycolic (see mandelic).
Phosphoric, food grade, 75%, cbys., c.l., frt. alld. E 100 lbs. 6.75 - —
l.c.l., works 100 lbs. 7.00 - 8.00
tanks, works 100 lbs. 5.35 - —
80%, cbys., c.l., frt. alld. 100 lbs. 7.60 - —
l.c.l., works 100 lbs. 7.85 - 9.10
NF, 85%, cbys., c.l., works lb. .0825- —
l.c.l., works lb. .0850- .0975
tanks, works lb. .0640- —

Acid, picric, NF, bbls lb. .60 - —
tech., bbls lb. .34 - .35
Propionic, syn., pure, dms., c.l., frt. alld lb. .22¾- —
l.c.l., frt. alld lb. .23¾- —
tanks, frt. alld lb. .20¾- —
Pyrogallic, NF, (see Pyrogallol).
tech., bbls lb. 2.76 - 2.99
Ricinoleic (see Acid, castor oil, split).
S., bbls., works lb. 3.25 - —
Salicylic, crude, fib. dms., c.l., frt. alld lb. .35 - —
l.c.l., frt. alld. on 100 lbs. or more lb. .36 - —
sublimed, tech., fib. dms., c.l., frt. alld lb. .37 - —
l.c.l., frt. alld on 100 lbs. or more lb. .41 - —
USP, cryst., fib. dms lb. .48 - —
powd., fib. dms lb. .55 - —
Sebacic, purif., dms., c.l., works lb. .59 - —
l.c.l., works lb. .61 - .65
Soybean oil, dbl. dist., dms. lb. .17¾- .19¾
tanks lb. .15¾- —
s.d., dms. lb. .16¼- .18¼
tanks lb. .14¼- —
Stearic, dbl. pressed, bgs. lb. .14¾- .16¾
single pressed, bgs. lb. .14¼- .16¼
triple pressed, bgs. lb. .17 - .19
Succinic, purif., cryst., bbls., works lb. .62 - .75
Sulfanilic, tech., dms., c.l., frt. alld lb. .19 - —
l.c.l., frt. alld lb. .21 - —
Sulfuric, 60° Be, cbys., c.l., works 100 lbs. 2.00 - —
l.c.l., works 100 lbs. 2.45 - —
tanks, works ton 18.60 - —
66° Be, cbys., c.l., works 100 lbs. 2.25 - —
l.c.l., works 100 lbs. 2.55 - 3.35
tanks, works ton 22.35 - —
98%, tanks, works ton 23.50 - —
99-100%, tanks, works ton 23.95 - —
CP, NF, consumers, cbys., extra, c.l., works, frt. equald lb. .09¾- —
l.c.l., same basis lb. .11¼- .11¾
5-pt. bots., extra cs., c.l., works, frt. alld lb. .13¼- —
l.c.l., same basis lb. .14¾- .20¾
fuming (oleum), 20%, tanks, works ton 25.00 - —
40%, tanks, works ton 29.00 - —
65%, tanks, works ton 39.50 - —
Tallow, dist., dms. lb. .14¾- .16¾
tanks lb. .12¾- —
hydrogenated, dms. lb. .13¾- .15¼
Tannic, NF, fluffy, bbls., 1,000-lb. lots lb. 2.05 - —
smaller lots lb. 2.06 - 2.10
powd., bbls., 1,000-lb. lots lb. 1.95 - —
smaller lots lb. 1.96 - 2.01
tech., dms lb. 1.05 - —
Tartaric, USP, dom., 230 or 250-lb. dms., c.l. lb. .47 - —
10,000-lb. lots, 1 shipt lb. .47½- —
smaller lots lb. .48 - —
100-lb. dms. lb. .49 - —
imported lb. .39½- .40
Thioglycolic, refd., cbys., 100% basis lb. 1.35 - 1.55
Tobias, bbls., frt. alld lb. .81 - —
Toluenesulfonic, dms., c.l., works, lb. .16 - —
l.c.l., works lb. .17½- —
p-Toluene sulfonic, monohydrate, dms., c.l., or t.l lb. .90 - —
125 lbs. to t.l. lb. 1.00 - —
p-Toluidine-m-sulfonic, bbls., works lb. .92 - 1.04
Trichloroacetic, bots. lb. 2.00 - 2.50
Trichlorophenoxyacetic (see 2,4,5-T).
Tungstic, tech., kgs., works lb. 4.25 - —
Undecylenic, dms lb. 1.40 - —
Aconite root, bls lb. .50 - .55
Acrolein, tech., dms., c.l., works lb. .47 - —
l.c.l., works lb. .47½- —
tanks, works lb. .46 - —
Acrylonitrile, dms., c.l., t.l., works, lb. .30 - —
l.c.l., t.t.l., works lb. .31 - —
tanks, works lb. .27 - —
ACTH, cryst., bulk, 1,000 units/gram, bots gram 15.00 - —
Adeps lanae (see Lanolin).
Adrenocorticotropic hormone (see ACTH).
Agar, USP, Kobe No. 1, strip, bls. lb. 3.00 - 3.25
powdered, 30 mesh, fib., dms lb. 3.40 - 3.50
dl-Alanine, dms., works lb 8.50 - 11.00
Albumin, blood, dark (see Blood, dried, soluble).
light, dms lb. .65 - .90
Egg, edible, cryst., powd., bbls lb. 2.24 - 2.26
flake lb. 2.20 - 2.22
tech., cryst., bbls lb. .83 - .90
Alcohol, allyl, dms., c.l., dlvd lb. .32 - —
l.c.l., dlvd lb. .33 - —
tanks, dlvd lb .30 - —
Amyl, ex fusel oil (see Fusel oil, refd.)
ferment., refd., 128°132°C., dms., l.c.l., dlvd lb. .43 - —
ACS grade, dms., c.l., dlvd lb. .45 - —
ex-pentane, mixed, amyls, dms., c.l., frt. alld lb. .17½- —
l.c.l., frt. alld lb. .18½- —
tanks, frt. alld lb. .15½- —
primary, dms., c.l., frt. alld. lb. .19¼- —
l.c.l., frt. alld lb. .20¼- —
tanks, frt. alld lb. .17¼- —
sec-synthetic, dms., c.l., works, frt. alld lb. .18½- —
l.c.l., works lb. .19½- —
tanks, works lb. .16½- —
tert-synthetic, dms., c.l., frt. alld, E lb. .17½- —
l.c.l., frt. alld E lb. .18½- —
tanks, frt. alld E lb. .15½- —
1-pentanol, (syn. normal), dms., c.l., works lb. .42 - —
l.c.l., works lb. .43½- —
tanks, works lb. .40 - —
2-pentanol, dms., c.l., works lb. .65 - —
l.c.l., works lb. .70 - —
tanks, works lb. .60 - —
Benzyl, NF, dms lb. .64 - .79
tech., dms., dlvd lb. .47½- .49
n-Butyl, ferment., dms., c.l., frt. alld lb. .15½- —
l.c.l., frt. alld lb. .16½- —
tanks, frt. alld lb. .13½- —
n-synthetic, dms., c.l., dlvd lb. .15½- —
l.c.l., dlvd lb. .16½- —
tanks, dlvd lb. .13½- —
sec-synthetic, dms., c.l., dlvd. lb. .13½- —
l.c.l., dlvd lb. .14½- —
tanks, dlvd lb. .11½- —
tert-synthetic, dms., c.l., frt. alld. lb. .14 - —
l.c.l., frt. alld lb. .15 - —
tanks, frt. alld lb. .12 - —
Capryl, 95%, dms., c.l., works lb. .21½- —
l.c.l., works lb. .22½- .23¼
tanks, works lb. .19½- —
Cetyl, extra, fib., cns., 500-lb. lots or more lb. .73 - —
smaller lots lb. .80 - 1.15
NF, fib., cns., 140-lb. lots or more lb. .58 - .82
smaller lots lb. .59 - .82
Cinnamic, bots lb. 2.15 - 2.75
Decyl mixed isomers, dms., c.l., dlvd lb. .25 - —
l.c.l., dlvd. lb. .26 - —
tanks, dlvd. lb. .23 - —
normal (see 1-Decanol).



Put This Plant Behind Your Product

Here at Publicker, we maintain that users of our products can no more afford to take chances with quality than we can. Consequently, every drop in every gallon or tank car is exactly according to specifications—always. And Publicker's ultra-modern equipment and vast facilities account for outstanding service to a long list of satisfied customers. May we have the opportunity of meeting *your* requirements?



ETHYL ALCOHOL • BUTYL ALCOHOL, NORMAL
BUTYL ACETATE, NORMAL • ETHYL ACETATE
BUTADIENE • ACETALDEHYDE • ACETIC ACID GLACIAL
ACETONE C.P. • AMYL ACETATE
FUSEL OIL, REFINED • ISOAMYL ALCOHOL
PACO SOLVENT T.R. 590

PUBLICKER INDUSTRIES Inc.

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NEW YORK—NEW ENGLAND—MIDWESTERN DISTRIBUTORS, PUBLICKER ALCOHOL & CHEMICALS SALES CORP.

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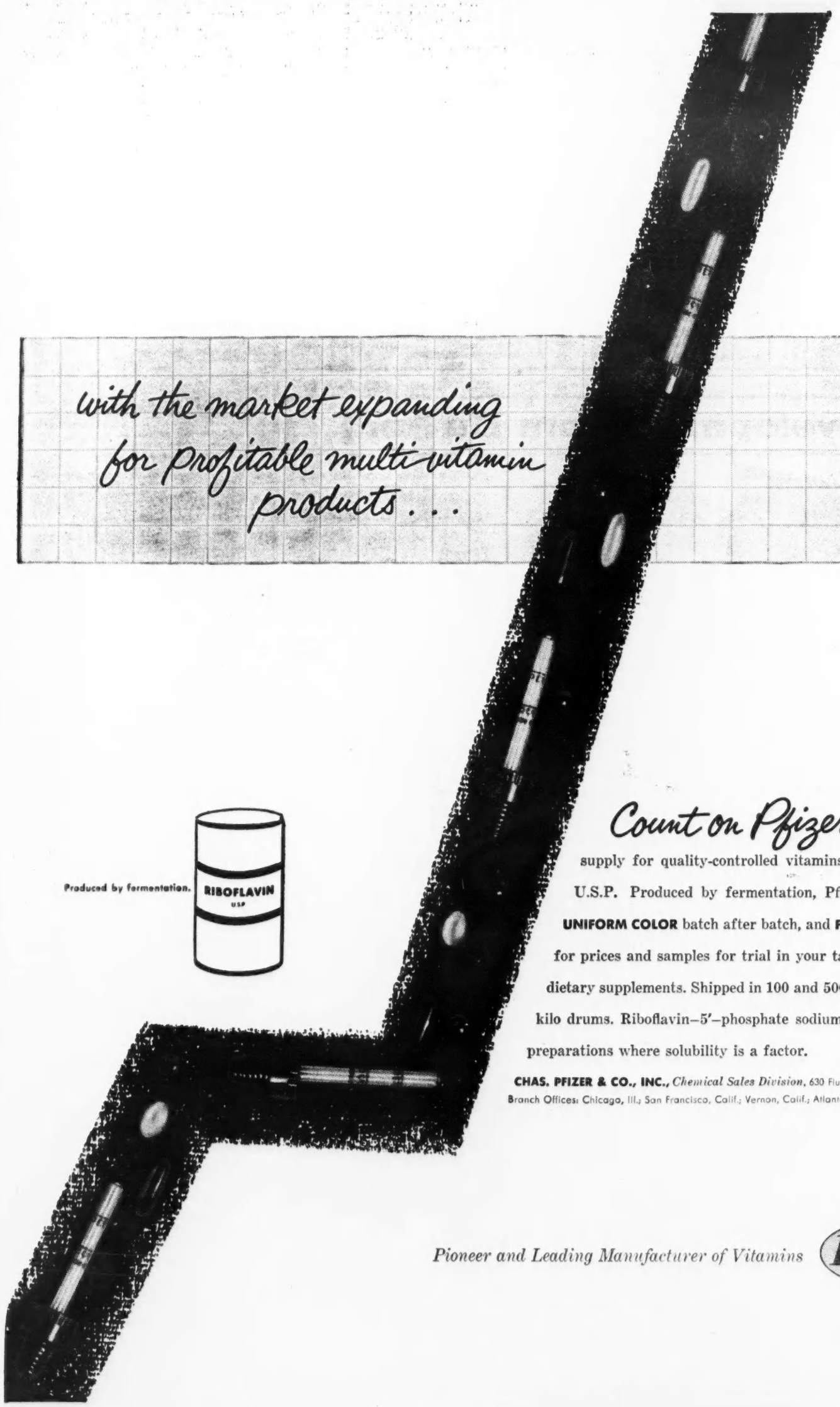
with the market expanding for profitable multi-vitamin products . . .



Produced by fermentation.

Count on Pfizer as a dependable source of supply for quality-controlled vitamins, like **PFIZER RIBOFLAVIN,** U.S.P. Produced by fermentation, Pfizer Riboflavin is noted for **UNIFORM COLOR** batch after batch, and **FREEDOM FROM ODOR.** Write for prices and samples for trial in your tablets, capsules or powdered dietary supplements. Shipped in 100 and 500 gm. bottles and 1, 5, 10, 25 kilo drums. Riboflavin–5′–phosphate sodium is also available for liquid preparations where solubility is a factor.

CHAS. PFIZER & CO., INC., *Chemical Sales Division,* 630 Flushing Avenue, Brooklyn, 6, N. Y.
Branch Offices: Chicago, Ill.; San Francisco, Calif.; Vernon, Calif.; Atlanta, Ga.; Dallas, Texas

Pioneer and Leading Manufacturer of Vitamins **Pfizer**

Alcohol, Denat.—Aminoethyl Ethanolamine

Alcohol, denat. CD12, CD13, CD14, CD17, dms. c.l., dlvd. E of Rockies gal. .56½- —
l.c.l., same basis, gal. .61½- .67½
tanks, dlvd. same basis, gal. .43½- —

Tankcar sales require written authorization by Alcohol and Tobacco Tax Div.

Proprietary solvent, dms., c.l., dlvd. E. of Rockies gal. .59 - —
l.c.l., same basis gal. .63 - .69
tanks, same basis gal. .45 - —

Tankcar sales require written authorization by Alcohol and Tobacco Tax Div.

SD1, dms., c.l., dlvd. E. of Rockies gal. .57½- —
l.c.l., same basis gal. .62½- .68½
tanks, same basis gal. .44½- —

SD2B, dms., c.l., dlvd. E. of Rockies gal. .56 - —
l.c.l. same basis gal. .61 - .67
tanks, same basis gal. .43 - —

SD3A, dms., c.l., dlvd. E. of Rockies gal. .55 - —
l.c.l., same basis gal. .60 - .66
tanks, same basis gal. .42 - —

SD23A, dms., c.l., dlvd. E. of Rockies gal. .57½- —
l.c.l., same basis gal. .62½- .68½
tanks, same basis gal. .44½- —

SD23H, dms., c.l., dlvd. E. of Rockies gal. .58 - —
l.c.l., same basis gal. .63 - .69
tanks, same basis gal. .45 - —

Alcohol, denat., SD29, dms., c.l., dlvd. E. of Rockies gal. .56½- —
l.c.l., same basis gal. .61½- .67½
tanks, same basis gal. .43½- —

SD30, dms., c.l., dlvd. E. of Rockies gal. .55 - —
l.c.l., same basis gal. .60 - .66
tanks, same basis gal. .42 - —

SD35A, dms., c.l., dlvd. E. of Rockies gal. .58 - —
l.c.l., same basis gal. .63 - .69
tanks, same basis gal. .45 - —

SD40, dms., c.l., dlvd. E. of Rockies gal. .56 - —
l.c.l., same basis gal. .61 - .67
tanks, same basis gal. .43 - —

West coast dlvd. prices are the same as eastern prices, except in Idaho, Montana, Oregon and Washington, where a 5c. differential on tankcars is maintained.

Diacetone, acetone-free, dms., c.l., dvld lb. .14 - —
l.c.l., dlvd lb. .15 - —
tanks, dlvd lb. .12 - —

tech., dms., c.l., dlvd lb. .13½- —
l.c.l., dlvd lb. .14½- —
tanks, dlvd lb. .11½- —

Ethyl 190 pf., USP, tax paid, dms., c.l., dlvd. E. of Rockies gal.20.50 - —
l.c.l., same basis gal.20.55 -20.61
tanks, same basis gal.20.37 - —

tax free, dms., c.l., dlvd. E. of Rockies gal. .55 - —
l.c.l., same basis gal. .60 - .66
tanks, same basis gal. .42 - —

Alcohol, ethyl, absolute, 200 pf., tax paid, dms., c.l., dlvd. E. of Rockies gal.21.60 - —
l.c.l., same basis gal.21.65 -21.71
tanks, same basis gal.21.47 - —

2-Ethylbutyl, dms., c.l., works lb. .29½- —
l.c.l. works lb. .30 - —
tanks, works lb. .28 - —

2-Ethylhexyl, dms., c.l., dlvd. E. lb. .23¾- —
l.c.l., same basis lb. .24¾- —
tanks, same basis lb. .21¾- —

Furfuryl, cns., works lb. .29 - —
dms., c.l., Cedar Rapids, Ia lb. .21 - —
Newark, N. J lb. .21½- —
l.c.l. Cedar Rapids, Ia lb. .22 - —
Newark, N. J lb. .22½- —
tanks, Memphis, Tenn lb. .184 - —

Hydroabietyl, tech., solid, Zone 1, dms., c.l., dlvd lb. .27 - —
l.c.l., dlvd lb. .27½- —
tanks, dlvd lb. .25 - —

Isoamyl, dms., c.l., works, frt. alld. E lb. .34 - —
l.c.l., same basis lb. .35 - —
tanks, same basis lb. .32 - —

Isobutyl, dms., c.l., dlvd lb. .14½- —
l.c.l., dlvd lb. .15½- —
tanks, dlvd lb. .12½- —

Iso-octyl, dms., c.l., dlvd. E lb. .23 - —
l.c.l., dlvd E lb. .24 - —
tanks, dlvd. E lb. .21 - —

Isopropyl, refd., 91%, dms., c.l., dlvd gal. .50 - —
l.c.l., dlvd gal. .57 - —
tanks, dlvd gal. .37 - —
95%, c.l., dlvd gal. .52 - —
l.c.l., dlvd gal. .59 - —
tanks, dlvd gal. .39 - —
99%, dms., c.l., dlvd gal. .54 - —
l.c.l., dlvd gal. .61 - —
tanks, dlvd gal. .41 - —

Lauryl, bots lb. 2.00 - 2.50
Methyl (see Methanol).

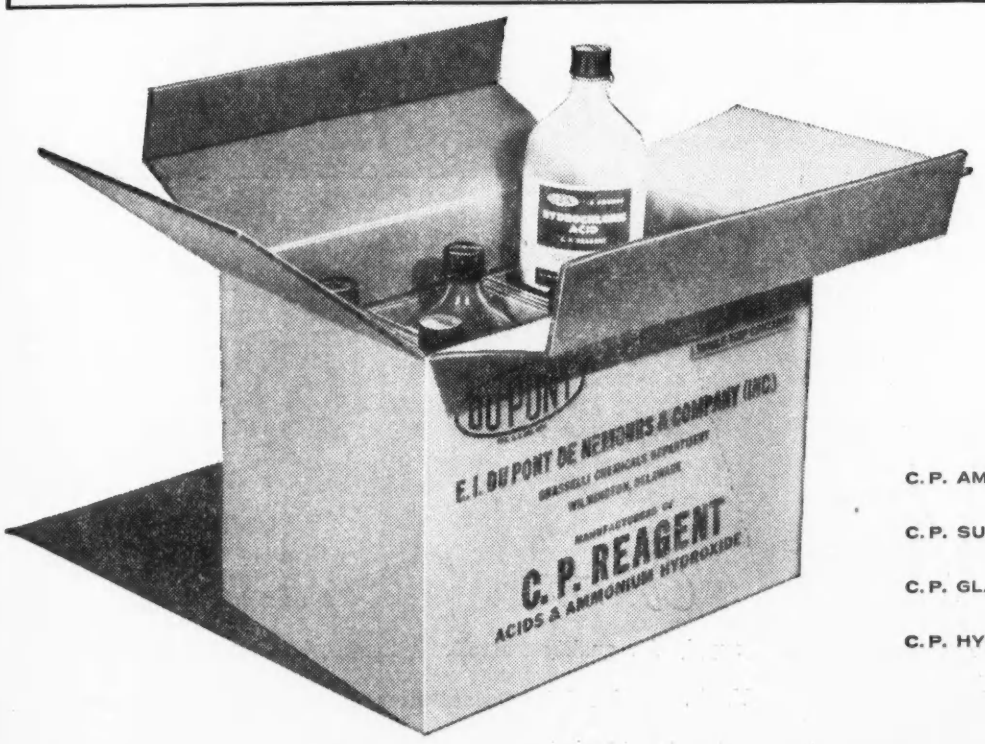
Alcohol, methylamyl (see Methyl isobutyl carbinol).
Octyl, perfumer's grade, bots. lb. 1.75 - 3.25
tech. (see Octanol, normal).
2-Phenylethyl, extra, dms. lb. 1.14 - 1.45
standard, dms lb. 1.18 - 1.48
n-Propyl, dms., c.l., dlvd lb. .12½- —
l.c.l., dlvd lb. .13½- —
tanks, dlvd lb. .10½- —
Tetrahydrofurfuryl, cns., Cedar Rapids, Iowa lb. .54 - —
dms., c.l., Niagara Falls, N. Y. lb. .44½- —
l.c.l., Newark, N. J., Cedar Rapids, Ia lb. .47 - —
tanks, Niagara Falls, N. Y lb. .43 - —
Indust. grade, dms., c.l., Niagara Falls, N. Y lb. .305 - —
l.c.l., Newark, N. J., Cedar Rapids, Ia lb. .33 - —
tanks, Niagara Falls, N. Y. lb. .29 - —
Tridecyl, mixed isomers, dms., dlvd lb. .26 - —
l.c.l., dlvd lb. .27 - —
tanks, dlvd lb. .24 - —
Wood (see Methanol).

Aldol, 95%, dms., works lb. .23 - —
denaturing grade, dms gal. 2.15 - —
Aldrin, tech., fib. dms., c.l., t.l., dlvd lb. .80 - —
l.c.l., dlvd lb. .85 - —
Aletris root, bgs lb 1.75 - 1.85
Algin (see Sodium alginate).
Alizarine (see 1,2-dihydroxy anthraquinone).
Allethrin, 90% dms. frt alld lb.28.80 -28.90
soln., 20% dms., 200-2,000 lb lots, frt. alld lb. 6.50 - 6.55
2½% dms. frt alld lb .95 - 1.00
Allspice (see Pimento)
Allyl bromide, chys., works lb. 1.35 - 1.40
Chloride, dms., c.l., dlvd lb. .17 - —
l.c.l., dlvd lb. .18 - —
tanks, dlvd lb. .15 - —
Starch, solid dms., works lb. .52¾- .54¾
solution, 40% toluol-butanol, dms., works lb. .25½- .26¼
Aloe, Cape, cs lb. .45 - .48
powd., cs lb. .50 - —
Curacao, kgs lb. 50 - .55
Aloin, USP, bbls., dms., kgs lb. 3.75 - 3.82
Alphanaphthol (see a-Naphthol).
Alphanaphthylamine (see a-Naphthylamine).
Alphanitronaphthalene (see a-Nitronaphthalene).
Alphapicoline (see a-Picoline).
Alphaterpineol (see a-Terpineol).
Alphatocopherol (see a-Tocopherol).
Alum, ammonium, gran., bgs., works 100 lbs 4.30 - —
lump, dms., works 100 lbs. 5.05 - —
powd., dms., works 100 lbs 5.20 - —
USP, burnt, dms lb. .20 - .21
hydrous, dms. lb. .07¾- .08
Potassium, gran., bgs., works, 100 lbs. 4.55 - —
lump, dms., works 100 lbs. 5.30 - —
powd., dms., works 100 lbs. 5.45 - —
USP, burnt, dms lb. .20 - .21
hydrous, dms lb. .07¾- .08
Potash-chrome, dms lb. .17 - —
Sodium, dms., c.l., works 100 lbs. 4.60 - —
l.c.l. works 100 lbs. 5.00 - —
Alumina, calcined, bgs., c.l., works, lb. .0425- —
l.c.l., works lb. .045 - .0725
Aluminum acetate, basic soln., 24%, bbls., l.c.l. works lb. .14 - —
Chloride, coml., anhyd., dms., c.l., works, frt. equald lb. .15½- —
l.c.l., works, frt. equald, lb. .16 - —
cryst., dms., c.l., works lb. .1450- —
l.c.l., works lb. .1500- —
soln. 32°, chys., c.l., works lb. .0445- —
l.c.l., works lb. 0520- .1295
tanks, works 100 lbs. 3 45 - —
NF, gran., dms., works lb. .29 - .30
Fluoride, tech., anhyd., bgs., c.l., works lb. .15¾- —
l.c.l., works lb. .16¼- .18¾
Aluminum fluoride in fib. dms. 0.35c. per lb higher.
Formate, basic soln., dms., c.l., works lb. .12 - —
l.c.l., works lb. .12½- —
Hydrate, heavy, bgs., c.l., frt. equald lb. .0295- —
20,000-40,000 lb. lots, same basis lb. .032 - —
2,000-20,000 lb. lots, same basis lb. .042 - —
bulk, same basis lb. .027 - —
light, bgs., dlvd lb. .18 - —
Hydroxide, gel., pharmaceutical, 14-15% Al_2O_3, fib. dms., works, lb., .22 - —
contract, works lb. .21 - —
9-9½% Al_2O_3, fib. dms., works lb. .19 - —
contract, works lb. .18 - —
dried, USP, XIV, fib. dms., works lb. .82½- —
contract, works lb. .79½- —
tech., powder (see Aluminum hydrate).
Metal, 99%+, ingots, 10,000-lb. lots, frt. alld lb. .2440- —
pigs, 10,000-lb. lots, frt. alld, lb. .2250- —
Oxide, amorphous (see Alumina, calcined).
Paste, lining, extra-fine, dms lb. .65½- —
standard grade, dms. lb. .45½- —
Powder, lining, extra, fine, dms. lb. 1.05½- —
standard grade, dms lb. .75 - —

Aluminum powder and paste prices are f.o.b. shipping point. Add 1c. per lb. for 100-lb. dm., 1½c. per lb. for 50-lb. dm., 3c. per lb. for 10-lb. can and 5c. to 12c. per lb. for smaller containers. Deduct 1c. per lb. for single shipment of 400 to 1,499 lbs., 2c. for 1,500 to 4,999 lbs., 3c. for 5,000 to 29,999 lbs. and 4c. for 30,000 lbs. or more. Where destination is within the continental U. S. a deduction equivalent to the lowest available common carrier transportation rate will be made from seller's invoice on orders of 200 lbs. or over.

Resinate, precip., 2.1% Al, dms., frt. alld lb. .30½- —
Stearate, dibasic, ctns., c.l. lb. .37 - —
l.c.l. lb. .38 - .42
monobasic, ctns., c.l. lb. .37 - —
l.c.l. lb. .38 - .42
tribasic, ctns., c.l. lb. .37 - —
l.c.l. lb. .38 - .42
Sulfate, coml., bulk, c.l., works, 100 lbs. 1.85 - —
grd., bgs., c.l., works ton.37.00 - —
lump, bgs., c.l., works ton.40.00 - —
iron-free, bgs., c.l., works, frt. equald 100 lbs. 3.55 - —
l.c.l., works, frt. equald, 100 lbs. 3.95 - —
Prices $1 per ton higher in the south.
USP, gran., dms., works lb. .16 - .18
powd., dms., works lb. .36 - .37
Trihydrate, heavy (see Aluminum hydrate, heavy).
Ambergris, gray, bots oz. 8.00 -10.00
Aminoazotoluene base, bbls., 100% basis lb. 1.03 - 1.18
o-Aminobiphenol, dms., c.l., works, lb. .32½- —
l.c.l., works lb. .33 - —
tanks, works lb. .31 - —
Aminoethyl ethanolamine, dms., c.l., dlvd. lb. .46½- —
l.c.l., dlvd lb. .45 - —
tanks, dlvd lb. .45 - —

New development from Du Pont



C. P. AMMONIUM HYDROXIDE

C. P. SULFURIC ACID

C. P. GLACIAL ACETIC ACID

C. P. HYDROCHLORIC ACID

Now . . . Du Pont Reagents come in throw-away cases and bottles

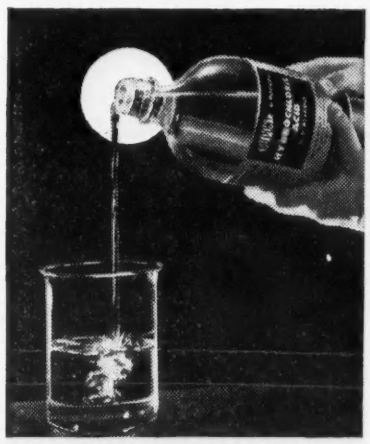
This Du Pont development brings welcome news to every user of C. P. Reagents. Throw-away packages for 5-pint units mean new convenience and economy.

• NO DEPOSIT • NO BOOKKEEPING • LESS BREAKAGE • LIGHTER WEIGHT
• NO RETURNS • LESS STORAGE SPACE • GREATER SAFETY • LOWER FREIGHT

New Du Pont safety sleeve (*right*), also on 5-pint bottles, is an added feature for safe handling. And each reagent bears a different colored label. Caps and labels match for added safety.

E. I. du Pont de Nemours & Co. (Inc.),
Grasselli Chemicals Dept.,
Wilmington 98, Del.

DU PONT
REG. U. S. PAT. OFF.
BETTER THINGS FOR BETTER LIVING
. . . THROUGH CHEMISTRY



NO DRIPS! NEW DU PONT SAFETY SLEEVE of "Alathon"® polyethylene resin prevents drippage . . . protects hands.

*Not yet approved for throw-away cases.

DU PONT C. P. REAGENTS

C. P. SULFURIC ACID • C. P. AMMONIUM HYDROXIDE • C. P. GLACIAL ACETIC ACID
C. P. HYDROCHLORIC ACID • C. P. NITRIC ACID*

SALES OFFICES: Atlanta 9, Ga.—739 W. Peachtree St. • Birmingham 11, Ala.—4300 Jefferson Ave. S. W. • Boston 10, Mass.—140 Federal St. • Charlotte 1, N. C.—427 W. 4th St. • Chicago 32, Ill.—4251 S. Crawford Ave. • Cincinnati 2, O.—603 Terrace Plaza Bldg. • Cleveland 14, O.—1321 Nat'l City Bank Bldg. • Detroit 35, Mich.—13000 W. 7 Mile Rd. • Houston 25, Texas—1100 E. Holcombe Blvd. • Los Angeles 54, Calif.—1363 S. Bonnie Beach Pl. • Milwaukee 13, Wisconsin—6500 West State St., Wauwatosa • Minneapolis 2, Minn.—1207 Foshay Tower • New Haven 13, Conn.—46 River St. • New York 1, N.Y.—350 Fifth Ave. • Philadelphia 3, Pa.—1617 Penna. Blvd., Room 860 • Phoenix, Ariz.—24 Bank of Douglas Bldg., Rm. 24 • Pittsburgh 19, Pa.—1715 Grant Bldg. • Portland, Ore.—3950 N. W. Yeon. • St. Louis 7, Mo.—112 W. Ferry St. • Salt Lake City, Utah—650 W. 8th So. • San Francisco 19, Cal.—1400 16th St. • Seattle 4, Wash.—4000 1st Ave. S. • Spokane, Wash.—801 N. Washington • In Canada—Du Pont Company of Canada Limited, Box 660, Montreal, P.Q.

2-Amino-2-methyl-1-propanol, dms., c.l., frt. alld. lb. .44 - —
l.c.l., frt. alld. lb. .45 - —
tanks, frt. alld. lb. .42 - —
m-Aminophenol, dist., dms., ton lots. lb. 2.05 - —
smaller lots lb. 2.50 - —
p-Aminophenol, dms., frt. alld. lb. 1.15 - —
Aminophylline, USP, 100-lb. dms. lb. 3.55 - —
Ammonia, anhyd., fertilizer, tanks, works, frt. equald ton.85.00 - —
refrigeration, tanks, works, frt. equald ton.87.50 - —
aqueous (29.4% NH_3), dms., c.l., dlvd. Metropolitan area 100 lbs. 3.60 - —
l.c.l., works 100 lbs. 4.00 - —
tanks, works, anhyd. basis. ton.88.00 - —
Ammoniacal liquor (see Ammonia, aqueous).
Ammoniac, sal, gray, bgs., c.l., works, frt. equald 100 lbs. 8.25 —
l.c.l., same basis 100 lbs. 8.65 -11.15
white, gran. (see Ammonium chloride, tech.).
Ammonium acetate, purif., dms lb. .38 - —
Benzoate, USP dms., kgs., 4,000-lb. lots, frt. alld lb. .80 —
smaller lots, frt. alld lb. .83 1.08
Biborate, gran., dms., c.l., works. ton.319.50 - —
ton lots, ex whse ton.395.00 - —
smaller lots, ex whse. ton.400.00 - —
Bicarbonate dom., dms., c.l., works. 100 lbs. 6.50 - —
l.c.l., works 100 lbs. 8.00 - —
imp. dms. l.c.l. lb. .07¼- .08½
Bichromate, dms., works lb. .42 - .43
Bifluoride, dms., dlvd lb. .2145- .2245
Bromide, NF, gran., bbls lb. .40 - —
Powdered ammonium bromide 10c per lb. higher.
Carbonate, USP, lump, dms lb. .16 - —
Chloride, tech., white, gran., fines, bgs., c.l., works 100 lbs. 5.25 - —
l.c.l., works 100 lbs. 7.00 - —
USP, gran., bbls., dms lb. .17¼- —
Citrate, dibasic, bbls lb. .77 - —
Dichromate (see Ammonium bichromate).
Fluoride (see Ammonium bifluoride).
Hydroxide (see Ammonia acoueous).
Hypophosphite, NF, dms lb. 3.07 - —
Iodide, NF, dms., bots lb. 4.26 - 4.38
Linoleate, 80%, dms., works lb. .50 - .55
Nitrate dom., fertilizer grade, 33.5% N., bgs., western, works, frt. equald ton.68.00 - —
with dolomite, 20.5% N. bgs., Hopewell, Va ton.51.00 - —
imp., Canadian, 33.5% N, eastern bgs., c.l., ship't point, frt. equald to $8 per ton. ton.70.00 - —
western, bgs., c.l., f.o.b. cars, Los Angeles ton.79.76 - —
Oxalate, fine gran., dms lb. .26½- .31
Pentaborate, gran., bgs., c.l., works. ton.187.50 - —
ton lots, ex whse ton.271.50 - —
smaller lots, ex whse. ton.276.50 - —
Ammonium pentaborate powder $10 per ton higher.
Persulfate, kgs lb. .38 - .47½
Phosphate, coml. bgs., c.l., works, frt. equald lb. .09 - —
l.c.l., same basis lb. .0933- —
dibasic, NF, V bbls., dms. lb. .46 - —
tech., bgs., c.l., works, frt. equald lb. .09 - —
l.c.l., same basis lb. .0933- —
Salicylate, NF, dms., kgs lb. 1.62 1.64
Silicofluoride, dms., works lb. .11¾- .13¼
Sulfamate, bgs., c.l., t.l., works. lb. .18 - —
l.c.l., works lb. .22 - —
Sulfate, coke-oven, bulk, producing ovens, base price ton.42.00 -45.00
syn., bulk, c.l., works ton.42.00 -46.00
purif., dms., works lb. .09 - .09½
Sulfide, liq., 40-44%, tanks, frt. equald., 100% basis ton.160.00 - —
Sulfocyanide, tech. (see Ammonium thiocyanate).
Thiocyanate, tech., dms., c.l., works lb. .20 - —
l.c.l. works lb. .22 - .26
Thioglycollate, coml., cbys., 100% basis lb. 1.35 - 1.53
highly purif., cbys., 100% basis. lb. 1.70 - 1.98
Thiosulfate, cryst., photo grade, fib. dms., frt. alld lb. .65 - —
60% soln., dms., c.l., works lb. .06½- —
d-Amphetamine hydrochloride dibasic, bots. lb.28.00 - —
dl, dms lb. 6.00 - —
d-monobasic, bots lb.28.00 - —
d-Phosphate, dibasic, bots lb.28.00 - —
dl, dms lb. 6.00 - —
d-Sulfate, dms lb.28.00 - —
dl, dms lb. 6.00 - —
Amyl acetate, ex fusel oil, tech., dms., c.l., frt. alld. E. of Rockies lb. .22 - —
l.c.l., same basis lb. .23 - —
tanks, same basis lb. .20 - —
syn., oxo process, dms., c.l., dlvd lb. .19¼- —
l.c.l., dlvd lb. .20¼- —
tanks, dlvd lb. .17¼- —
ex pentane, reg., dms., c.l., dlvd lb. .17½- —
l.c.l., dlvd lb. .18½- —
tanks, dlvd lb. .15½- —
tech., dms., c.l., dlvd lb. .15½- —
l.c.l., dlvd lb. .16½- —
tanks, dlvd lb. .13½- —
Alcohol (see Alcohol, amyl).
n-Butyrate, dms lb. .90 - 1.25
Cinnamic, aldehyde, dms lb. 1.75 - 2.20
Nitrite, USP, bots lb. 1.75 - 1.83
Salicylate, cns., dms lb. .74 - 1.03
o-tert-Amyl phenol, dms., c.l., works. lb. .48 - —
l.c.l., works lb. .49 - —
tanks, works lb. .48 - —
p-tert-Amyl phenol, dms., c.l., works. lb. .25¾- —
l.c.l., works lb. .26¾- —
tanks, works lb. .24¾- —
Anethole, NF, cns., dms lb. 1.85 - —
tech., dms lb. 1.10 - 1.15
Angelica root, dom., bls lb. .60 - .70
Aniline oil, dms., c.l., frt. alld. lb. .21 - —
l.c.l., frt. alld lb. .22 - —
tanks, frt. alld lb. .20 - —
tankwagons, min. 2,000 gals. lb. .20¼- —
Salt, dms., c.l., truckloads, 20,000 lbs., min., frt. alld. lb. .31 - —
l.c.l., same basis lb. .33 - —
Anise seed, Mexican, bgs lb. No prices.
Spanish, bgs. lb. .31 - —
Anisic aldehyde, bots., dms lb. 1.80 - 2.70
o-Anisidine, dms., works lb. .88 - —
p-Anisidine, dms., works lb. .97 - —
Annatto seed, whole, bgs lb. .13 - .17
Anthracene, 90-95%, bbls., ton-lots, works lb. .83 - —
smaller lots, works lb. .95 - —
Anthraquinone, 99.5%, bbls, c.l., frt. alld lb. .83 - —
l.c.l., same basis lb. .88 - —
electrical grade, bbls., l.c.l., same basis lb. .91 - —

Antimony butter (see Antimony trichloride).
Metal, bulk, c.l., mines lb. .23 - —
cs., c.l., mines lb. .33½- —
Oxide, bgs., c.l., frt. alld lb. .29 - —
l.c.l., frt. alld lb. .30½- —
Sulfide, approx. 65%, bgs., dlvd lb. .23 - .26
Trichloride, anhyd., solid, pails, c.l., works lb. .41 - —
l.c.l., works lb. .43 - —
Antimony-potassium tartrate, tech., powd., dms lb. .65½- .70½
USP, powd., dms lb. .70½- .71½
Antipyrine, NF, 200-lb. bbls lb. 3.50 - —
Apomorphine hydrochloride, USP, bots oz.23.40 -23.90
Areca nuts, powd., bbls lb. .15 - .16
Arecoline hydrobromide, NF, bots., tins oz. 4.50 6.00
l-Arginine monohydrochloride, dms. 1 kilo lots kilo.74.80 - —
Arnica flowers (true montana), bls. lb. No prices.
Arsenic metal, lump bbls. ex whse. lb. .54 - —
Trioxide, USP, dms lb. .48 - —
White, powd., bbls., c.l., dlvd lb. .05½- —
l.c.l., dlvd lb. .06½- .07½
Asafetida, cs lb. .36 - .39
powd., bbls., dms lb. .50 - 53
Asbestine (see Talc, fibrous, N. Y.)
Asbestos, Canadian, crude, No. 1, c.l. (20 tons), mines ton.1,430.00-
No. 2, c.l. (20 tons), mines ton.742.50 -
Run-of-mine, c.l. (20 tons) mines ton.611.60 -
3K, c.l. (20 tons), mines ton.479.60 -
3R, c.l. (20 tons), mines ton.408.10 -
3T, c.l. (20 tons), mines ton.382.80 -
Asbestos, Canadian, crude, 3Z, c.l., (20 tons), mines ton.353.10 -
4K, c.l. (20 tons), mines ton.190.30 -
4M, c.l. (20 tons), mines ton.190.30 -
4T, c.l. (20 tons), mines ton.171.60 -
4Z, c.l. (20 tons), mines ton.171.60 -
5D, c.l. (20 tons), mines ton.134.75 -
5K, c.l. (20 tons), mines ton.134.75 -
5M, c.l. (20 tons), mines ton.122.35 -
5R, c.l. (20 tons), mines ton.115.50 -
(20 tons), mines ton.115.50 -
6D, c.l. (30 tons), mines ton.81.90 -
7D, c.l. (30 tons), mines ton.71.92 -
7F, c.l. (30 tons), mines ton.68.25 -
7H, c.l. (30 tons), mines ton.57.75 -
7K, c.l. (30 tons), mines ton.48.30 -
7M, c.l. (30 tons), mines ton.42.00 -
7R, c.l. (30 tons), mines ton.40.95 -
7RF, c.l. (30 tons), mines ton.42.00 -
7T, c.l. (30 tons), mines ton.38.85 -
7TF, c.l. (30 tons), mines ton.42.00 -
8S, c.l. (30 tons), mines ton28.35 -
Asbestos c.l. prices are in U. S. funds, l.c.l. lots $4 per ton higher.
Asphalt, gilsonite, black jet, bgs., c.l., mines ton.37.00 -
select, 350° F. fusing pt., bgs., c.l., mines ton.38.00 -
270°-295°F., fusing pt., bgs., c.l., mines ton.37.00 -
seconds, 300°-390°F. fusing pt., bgs., c.l., mines ton.32.00 -
Manjak, No. 10, crude, dms., works lb. .06¼- —
Asphalt, petroleum, cut-back, tanks, tankwagon, refy gal. .09 - —
emulsion, tanks, tankwagon, refy. gal. .09½- —
steam-refd., 50-80 penetration, tanks, tankwagon, refy ton.21.00 - —
85-300 penetration, tanks, tankwagon, refy ton.20.00 - —
Aspirin, (see Acid acetylsalicylic).
Atropine, USP, bots oz. 3.90 - —
Sulfate, USP, bots oz. 2.45 - 2.65

B

Bacitracin, bulk, 1,000,000,000 or more units 50,000 units. .70 - —
less than 1,000,000,000 units. 50,000 units. .75 - —
Balm of Gilead buds, dried, bgs lb. 1.35 - 1.43
Barberry root bark, bgs lb. .28 - .30
Barbital, USP, 100-lb. dms lb. 4.50 - —
Sodium, USP, dms lb. 4.75 - 4.77
Barium carbonate, precip., bgs., c.l., works ton.100.00 - —
smaller lots, works ton.110.00 - —
Chlorate, kgs., works lb. .32 - .36
Chloride anhyd., bgs., c.l., works. ton.165.00 - —
l.c.l., works ton.175.00 - —
NF, cryst., dms lb. .20 - —
tech., cryst., dms., c.l., works. 100 lbs. 6.50 - —
l.c.l., works 100 lbs. 7.00 - —
Chromate, bgs., frt. equald lb. .35 - —
Dioxide (see Barium peroxide).

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Barium hydrate, cryst., bgs., c.l., t.l., frt. equald ..ton.200.00 - —
l.c.l., l.t.l., frt. equald ..ton.210.00 - —
Monoxide (see Oxide).
Nitrate, bbls., c.l., t.l., dlvd ....lb. .16 - —
l.c.l., l.t.l., dlvd ..... lb. .17 - —
Oxide, grd., dms., c.l., t.l., frt. equald ..ton.275.00 - —
l.c.l., l.t.l., frt. equald ..ton.285.00 - —
Peroxide, dms., frt. equald ....lb. .20 - —
Stearate, ctns., c.l., frt. alld ..lb. .39 - —
l.c.l., same basis ..... lb. .40 - .44
Sulfate, tech. (see Barytes and blanc fixe).
X-ray, dms ..... lb. .15 - .15½
Sulfide, dms., c.l., works ..ton.85.00 - —
l.c.l., works ..... ton.95.00 - —
Barytes, Southern, off-color, bgs., mines ..ton.25.00 - —
95-75%, bgs., mines ..... ton.25.00 - —
water-grd., paper bgs., c.l., E. St. Louis ton.45.00 - —
ex-whse, N. Y. ..... ton.65.10 - —
Bauxite, bulk, mines ..... ton. 6.75 -10.00
Bay leaves (see Laurel leaves).
Belladonna leaf, bls ..... lb. .35 - .37
root, bls ..... lb. .45 - .50
Bentonite, dom., 200 mesh, bgs., c.l., mines ton.14.00 - —
imp. Italian, white, high gel., bgs., 5-ton lots, ex whse ton.80.60 - —
1 ton-lots, ex whse ton.83.10 - —
tow gel., bgs., 5-ton lots, ex whse ton.78.95 - —
1-ton lots, ex whse ... ton.81.45 - —

Benzal chloride, cbys., works ....lb. .22 - .23½
Benzaldehyde, NF, dms ..... lb. .74 - 1.05
tech., cbys., t.l., dms ..... lb. .43 - —
smaller lots ..... lb. .44 - —
Benzene (See Benzol).
Hexachloride, 25% and 99% gamma isomer (see Lindane).
tech., high gamma, dms., c.l., dlvd., gamma unit-lb. .0075- —
l.c.l., works, gamma unit-lb. .009 - —
low gamma, dms., c.l., dlvd., gamma unit-lb. .007 - —
l.c.l., works, gamma unit-lb. .0085- —
Benzidine hydrochloride, bbls., c.l., frt. alld., 100% basis ..lb. 1.03 - —
l.c.l., same basis ..... lb. 1.05 - —
Sulfate, tech., frt. alld, 100% basis ..lb. 1.05 - —
Benzocaine, dms. ..... lb. 3.48 - 3.50
Benzol, coaltar, pure or nitration, tanks, works:—
Bethlehem, Pa ..... gal. .36 - —
Birmingham district gal. .36 - —
Chicago district .... gal. .36 - —
Cleveland district .... gal. .36 - —
Geneva, Utah ..... gal. .36 - —
Johnstown, Pa. ..... gal. .36 - —
Lackawanna, N. Y. .... gal. .36 - —
Lone Star, Texas ..... gal. .36 - —
Lorain, Ohio ..... gal. .36 - —
Middletown, Ohio .... gal. .36 - —
Minnequa, Colo .... gal. .36 - —
Philadelphia district .. gal. .36 - —
Pittsburgh district ... gal. .36 - —

Benzol, coaltar, pure or nitration, tanks, works:—
Sparrows Point, Md. gal. .36 - —
Syracuse, N. Y. ..... gal. .36 - —
Terre Haute, Ind. ...gal. .36 - —
Youngstown, Ohio....gal. .36 - —
Benzophenone, dms. ..... lb. 1.40 - 1.70
Benzotrichloride, cbys., 1,000-lb. lots or more, frt. equald ..lb. .18 - —
smaller lots, frt. equald ... lb. .20 - —
Benzoyl chloride, cbys., dms., c.l., works, frt. equald lb. .22 - —
l.c.l., same basis lb. .23 - —
tank trucks, dlvd. Metropolitan area lb. .21 - —
Peroxide, purif., fib. dms., 50 to 1,000-lb. lots, works lb. .98 - 1.08
Benzyl acetate, f.f.c., cns., dms lb. .62 - 1.04
Alcohol (see Alcohol, benzyl).
Benzoate, USP f.f.c. cns., dms.lb. .62 - 1.10
Chloride, tech., 13-gal. cbys., dms. c.l., works, frt. equald, lb. .23 - —
l.c.l., same basis ..... lb. .24 - —
tank trucks, same basis ... lb. .21 - —
A 2½c. differential is quoted on benzyl chloride in 5-gal. cbys. in steel dms. prices were ½c. lower.
Cinnamate, cns ..... lb. 3.60 - 3.90
Formate cns. ..... lb. 1.30 - 2.10
Isoeugenol, cns. ..... lb 8.60 - 9.10
Propionate, bots. ..... lb. 1.35 - 1.65
Salicylate, bots ..... lb. 1.50 - 1.85
Borax, tech., gran., pentahydrate, 99½%, bgs., c.l., works ton.57.75 - —
ton lots, ex whse., N.Y., Chi ..ton.107.50 - —
smaller lots, same basis. ton.112.50 - —
bulk, c.l., works ..... ton.51.25 - —
powd. 99½%, bgs., c.l., works. ton.48.25 - —

Benzylidine acetone, bots.....lb. 1.68 - 1.80
Chloride (see Benzal chloride).
Berberine bisulfate, cns.....lb.35.00 -36.25
Hydrochloride, bots. .....lb.35.00 -36.25
Betagammapicoline (see b,g-Picoline).
Betamethylnaphthalene (see b-Methylnaphthalene)
Betanaphthol (see b-Naphthol).
Betanaphthylamine (see b-Naphthylamine).
Betaphenylethylamine (see b-Phenylethylamine).
BHC (see Benzene hexachloride, technical)
Biotin cryst., bots.....gram.10.00 - —
Biphenyl (see Diphenyl).
Bismuth chloride, jars.....lb. 5.11 - —
Hydroxide, dms. .....lb. 4.65 - —
Metal, bxs. ton lots.....lb. 2.25 - —
Nitrate, cryst., dms.....lb. 2.10 - 2.17
Oxide, anhyd., dms.....lb. 4.47 - 5.05
Oxychloride, dms. .....lb. 4.37 - 4.42
Phenolsulfonate, fib. dms....lb. 5.22 - —
Subcarbonate, USP, dms.....lb. 3.20 - —
Subgallate, NF, fib. dms.....lb. 3.15 - —
Subiodide, fib. dms .....lb. 5.37 - —
Subnitrate, NF, dms .....lb. 2.65 - —
Subsalicylate, USP, dms.....lb. 3.50 - —
Bismuth-ammonium citrate, USP, powd. jars lb. 4.22 - —
Black, acetylene, imp., bgs., c.l., duty and freight extra..lb. .17 - —
cs., l.c.l., ex whse .....lb. .22½- .26
Ash (see Barium sulfide).
Bone, dms., l.c.l., frt. alld ....lb. .17 - .23¼
Pacific coast bone black prices 2c. per lb. higher.
Carbon, channel, pigment, high color, beads, ctns., c.l., works. lb. .72 - —
l.c.l., dlvd or whse.lb. .78 - —
medium color, uncompressed, bgs., c.l., works. lb. .12 - —
l.c.l., dlvd. or whse. lb. .19 - —
rubber, beads, bulk, c.l., works lb. .07 - —
bgs., c.l., works .... lb. .074 - —
l.c.l., works ..... lb. .1225- —
furnace, fast extruding, bgs., c.l., works lb. .06 - —
ctns., l.c.l., whse lb. .10 - —
high abrasion, bulk, c.l., works. lb. .0750- —
bgs., c.l., works .... lb. .0790- —
l.c.l., dlvd. or whse ... lb. .122 - .125
high modulus, bgs., c.l., works. lb. .0550- —
ctns., l.c.l., whse .... lb. .0950- —
semi-reinforcing bgs., c.l., works lb. .045 - —
bgs., ctns., l.c.l., whse .. lb. .085 - —
Charcoal (see C).
Dyes (see Dyes).
Graphite (see G).
Iron oxide, pure, bgs., c.l., works. lb. .13¼- —
l.c.l., works .....lb. .13½- —
Lamp, bgs., c.l., works .....lb. .16 .45
Mineral, bgs., works .....lb. .0160- .0675
Blackberry root bark, bls.....lb. .45 - —
Black haw root bark, bls.....lb. .63 - .65
tree bark, bls.....lb. .40 - .45
Blanc fixe, dry, byproduct, bgs., c.l., works ton.190.00 - —
l.c.l., works ..... ton.200.00 - —
direct process, bgs., c.l., works. ton.110.00 - —
l.c.l., works .....ton.120.00 - —
N. Y. whse ..... ton.155.00 - —
Blood, dried, 16-16½% ammonia, bgs. unit-ton. 4.75 - —
high-grade, unground, 16-17% ammonia, bgs., Chicago. unit-ton. 5.00 - —
soluble, bgs., c.l. ..... lb. .13 - .15
l.c.l. ..... lb. .15½- .19½
Bloodroot, bls ..... lb. .48 - .50
Blue, alkali, dry, 250-lb. bbls., dlvd. N. of Tenn. and N. C., E. of Miss. R. including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis lb. 2.10 - —
toner, 125-lb. bbls., litho flushed, same basis lb. 1.20 - —
Chinese, bbls., same basis, carlots. lb. .50 - —
l.c.l., ton lots ..... lb. .51 - —
less than ton lots ..... lb. .52 - —
Cobalt, genuine, bbls., same basis lb. 4.90 - —
Imitation (see Blue, ultramarine).
Dyes (see Dyes).
Iron (see Blue, Chinese Milori, Potash, Prussian and Soda).
Methyl violet toner, molybdated, PMA, bbls., same basis lb. 2.75 - —
tungstated, PTMA, bbls., same basis lb. 4.00 - 4.15
Milori, bbls., same basis, carlots. l.c.l., ton lots ..... lb. .51 - —
less than ton lots ..... lb. .52 - —
Peacock, fugitive, 100% color strength, bbls., same basis. lb. .85 - —
Phthalocyanine, full strength, bbls., same basis lb. 3.45 - —
resinated, bbls., same basis lb. 3.00 - —
water dispersable, bbls., same basis lb. 1.54 - —
Potash, CP, bbls., same basis lb. .56 - —
Prussian, insoluble, soluble, bbls., same basis, carlots. lb. .50 - —
l.c.l., ton lots ..... lb. .51 - —
less than ton lots ..... lb. .52 - —
Soda, CP, bronze, bbls., same basis, carlots. lb. .50 - —
l.c.l., ton lots ..... lb. .51 - —
less than ton lots ..... lb. .52 - —
Ultramarine, cobalt type, dry or pulp, bbls., same basis lb. .30½- .35
jobbing types, bbls., same basis. lb. .19 - —
regular types, dry, bbls., same basis lb. .22½- .35
Victoria toner, molybdated, PMA, bbls. lb. 4.10 - —
tungstated, PTMA, bbls ....lb. 5.35 - —
Blue dry colors, dlvd. prices ½c. higher Ala., Fla., Ga., La. (Shreveport 1¼c.), Miss., N. C., S. C., Tenn., Tex. (El Paso 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph 1.6c. higher Pac. Coast, Denver, Pueblo, Salt Lake City, Wichita, frt. equalized with Chicago.
Vitriol (see Copper sulfate).
Bluestone (see Copper sulfate).
Bonemeal, steamed, works, E. ..ton.65.00 - —
Los Angeles ..... ton.82.00 - —
Bone phosphate defluorinated (see D) of lime (see Calcium phosphate, tribasic).
precipitated (see Calcium phosphate tribasic, NF, precip.)
Borax, tech., anhyd., 99½%, bgs., c.l., works ..ton.80.50 - —
ton lots ex whse. N. Y. or Chicago ..ton.130.25 - —
bulk, c.l., works ..... ton.71.50 - —
cryst., 99½%, bgs., c.l., works. ton.69.25 - —
ton lots, ex-whse., N. Y. or Chi ..ton.119.00 —
smaller lots, same basis. ton.124.00 - —

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Borax, tech., gran., decahydrate, 99½%, bgs., c.l., works, ton 43.25 - —
ton lots, ex whse., N. Y., Chi ton 93.00 - —
smaller lots, same basis ton 98.00 - —
bulk, c.l., works ..... ton 36.75 - —
ton lots, ex-wnse., N. Y. or Chi ton 98.00 - —
smaller lots, same basis. ton 103 - —
Borax packed in kgs., $45.50 per ton higher than in paper bgs.; in barrels, $24.50 higher. USP borax $15 per ton higher.

Bordeaux mixture, bgs., c.l., works, frt. alld. or nearest whse. pt lb. .18 - .24
l.c.l., same basis ..... lb. .19 - .26
Borneol, cns ..... lb. 2.50 - 4.50
Boron trifluoride gas, cyls., truck-load works lb. .62 - —
l.t.l., works ..... lb. .70 - —
Brazilwood extract (see Hypernic extract).
Brimstone (see Sulfur).
Bromine, purif., cs., c.l., t.l., dlvd. E. of Rockies lb. .31 - —
l.c.l., same basis lb. .33 - .38
ret. dms., c.l., t.l. dlvd. E. of Rockies lb. .30 - —
l.c.l. same basis lb. .30 - .32
tanks, same basis lb. .21½ - —
Bromochloromethane, dms., c.l., frt. equald lb. .48 - —
l.c.l., same basis ..... lb. .50 - —
Bromoform, pharmaceutical grade, bots lb. 1.62 - 2.60
cbys. ..... lb. 1.52 - —
Bromstyrol, bots ..... lb. 5.40 - 5.70
Bronze powder aluminum (See A).
Brown, iron oxide, pure, bgs., c.l., works lb. .14¼ - —
l.c.l. works ..... lb. .14½ - —
Oxide, metallic, bgs., works lb. .04 - —
Sienna, burnt., paper bgs., c.l., works lb. .06¼ - .17¼
l.c.l., works ..... lb. .06½ .17½
raw, paper bgs., c.l., works lb. .06¼ - .16¼
l.c.l., works ..... lb. .06½ - .16½
Umber, burnt, American, c.l., works lb. .07 - .07¾
l.c.l., works ..... lb. .07¼ - .08
Turkey type, bgs., c.l., Boston, Bethlehem, Easton, Pa., Hiwassee, Va., N. Y. lb. .07¾ - —
raw, American, bgs., works lb. .07½ - .08¼
Turkey-type, bgs., works lb. .06¾ - .07
Vandyke, bbls., works ..... lb. .09½ - .12
Brucine, cns., 100-oz. lots ..... oz. .20 - .25
Sulfate, NF cns., 100-oz. lots oz. .15 - .20
Buchu leaves, bls ..... lb. .65 - —
Butadiene, refd., cyls., c.l. refy lb. .21 - —
l.c.l., refy. ..... lb. .22 - —
tanks, refy ..... lb. .15 - —
Butane, indust., tanks, group 3 gal. .04½ - —
N. Y. harbor ..... gal. .08 - —
n-Butyl acetate, ferment., dms., c.l., frt. alld. lb. .15½ - —
l.c.l., same basis ..... lb. .16½ - —
tanks, same basis ..... lb. .13½ - —
syn., dms., c.l., dlvd E. ..... lb. .15½ - —
l.c.l., same basis ..... lb. .16½ - —
tanks, same basis ..... lb. .13½ - —
sec-Butyl acetate, syn., dms., c.l., dlvd. E. lb. .13 - —
l.c.l., same basis ..... lb. .13¾ - —
tanks, same basis ..... lb. .11¼ - —
Butyl alcohol (see Alcohol, n-Butyl).
Aldehyde (see Butyraldehyde).
Chloride, dms., c.l., works ..... lb. .37½ - —
l.c.l. works ..... lb. .38 - —
Ether, dms., c.l., works ..... lb. .32¾ - —
l.c.l., works ..... lb. .33¼ - —
tanks, works ..... lb. .31 - —
Lactate, dms., c.l., frt. alld E. of Rockies lb. .42 - —
l.c.l. same basis ..... lb. .43 - —
tanks, same basis ..... lb. .40 - —
Laurate, dms., works ..... lb. .39 - —
Methacrylate dms., c.l., t.l., works. lb. .70 - —
l.c.l., works ..... lb. .55½ - —
Oleate, refd., dms., l.c.l., works lb. .32 - —
Phenylacetate, dms. ..... lb. 4.50 - 4.60
Phthalate (see Dibutyl phthalate).
Stearate, dms., c.l., frt. equald. lb. .24½ - —
l.c.l., same basis ..... lb. .25½ - —
Butylamine (see mono-, di-, and tri-).
6-tert-Butyl-m-cresol, dms., c.l., works lb. .55 - —
l.c.l., works ..... lb. .56 - —
tanks, works ..... lb. .54 - —
p-tert-Butylphenol, bgs., c.l., works. lb. .25½ - —
Butyraldehyde, dms., c.l., dlvd lb. .21½ - —
l.c.l. dlvd ..... lb. .22½ - —
tanks, dlvd ..... lb. .19½ - —
Butyric ether (see Ethyl butyrate).

C

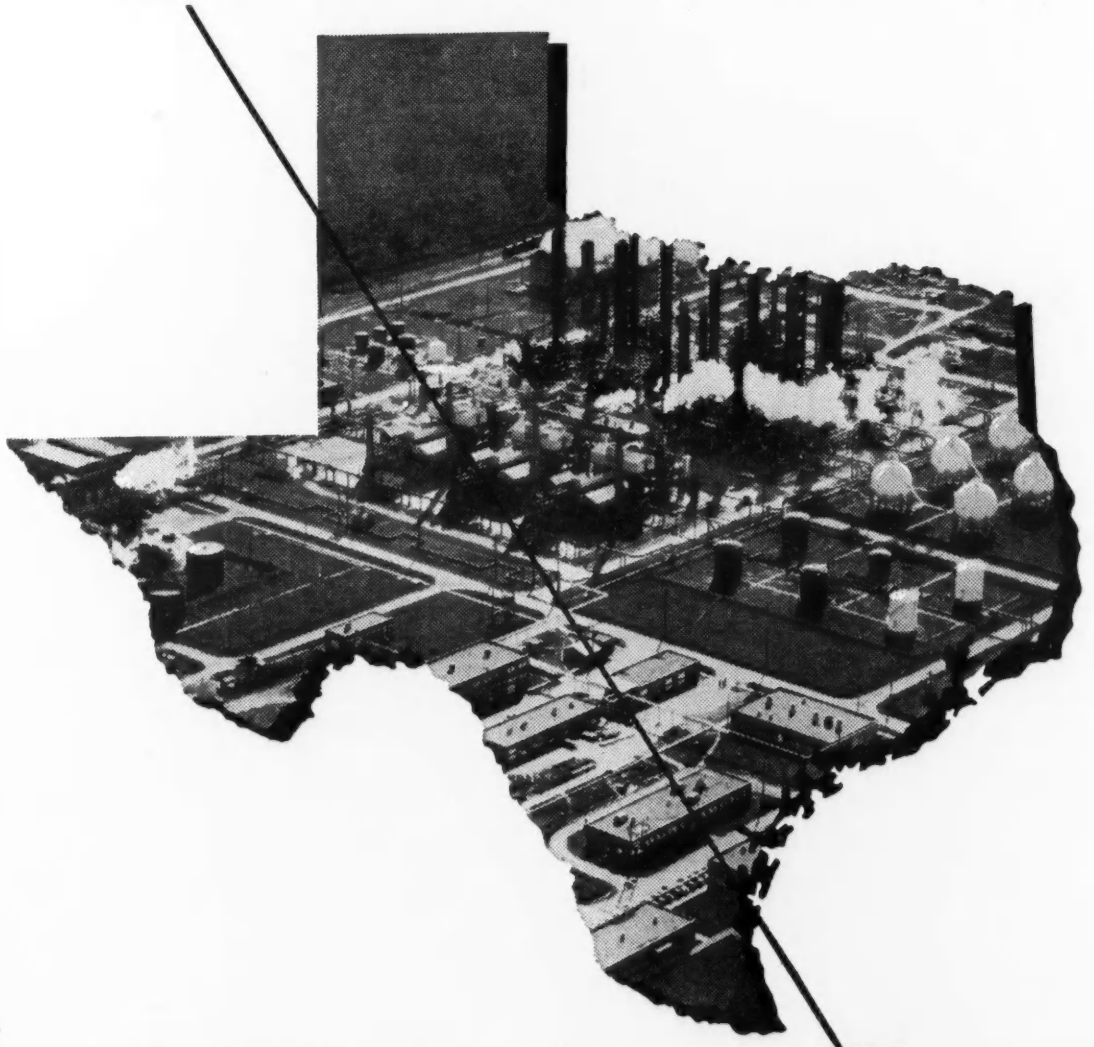
Cacao butter (see Cocoa butter).
Cadmium iodide, 25-lb. fib. dms lb. 6.75 - 7.00
Metal ingots or sticks, cs., dlvd. lb. 1.70 - —
Caffeine, USP, nat., cryst., anhyd., dms., 100-lb. lots or more lb. 3.00 - —
hydrous, dms., 100-lb. lots or more lb. 2.80 - —
syn., cryst., anhyd., dms., 100-lb. lots or more lb. 3.00 - —
hydrous, 100-lb. lots or more lb. 2.80 - —
Citrated, USP, dms., 100-lb. lots or more lb. 2.70 - —
Calamine, USP, dms lb. .34 - —
Calciferol, cryst., vials, 1-kilo lots, works gram. .60 - —
25 to 100 gram lots, works. gram. .65 - —
in edible oil (see Viosterol).
Calcium p-aminosalicylate, fib., dms., 1,000 lb. lots, frt. adjusted lb. 7.00 - —
smaller lots, same basis lb. 7.05 - 7.50
Arsenate, dealers, drums, c.l., whse., works, frt. alld. on 96 lbs. or over lb. .09 - .10
l.c.l., same basis lb. .10 - —
Bromide, NF, jars ..... lb. .94 - .98
Carbide, standard generator size, dms., c.l., dlvd ton 134.40 - —
Carbonate, nat., dry-grd., air floated,, 325 mesh, bgs., c.l., works ton 10.50 - —
chalk, whiting, 325 mesh, bgs., works ton 32.00 -34.00
water-grd., ½ to 10 microns, bgs., c.l., works ..... ton 30.00 - —
10 to 20 microns, bgs., c.l., works ton 17.00 -18.00
precip., dense, bgs., c.l., works. ton 32.50 - —
l.c.l., works ..... ton 42.50 - —
medium, bgs., c.l., works ton 38.00 - —
l.c.l., works ..... ton 48.00 - —
surface treated, bgs., c.l., works ton 37.50 - —
l.c.l., works ..... ton 47.50 - —
ultrafine, bgs., c.l., works. ton 110.00 160.00
l.c.l., works ..... ton 120.00 175.00

Calcium chloride, cryst., purif., dms lb. .27 - —
flake, 77-80%, paper bgs., c.l., works, frt. equald ... ton 29.00 - —
liquor, 40%, tanks, frt. equald. ton 12.35 - —
pellets, bgs., c.l., works .... ton 35.40 - —
powd., bgs., c.l., works ..... ton 39.65 - —
solid, 73-75%, dms., c.l., frt. equald ton 27.50 - —
l.c.l., works, same basis. ton 34.00 -71.00
USP, gran., dms. ..... lb. .32 - —
Chromate, bgs., frt. equald .. lb. 29½ - .30
Cyanide, dms., dlvd. E. of Rockies lb. .24 - .50
Cyclamate, 100-lb. fib. dms ... lb. 2.95 - —
Gluconate, AA, bbls., dms ... lb. .74 - .76
USP, bbls., dms ..... lb. .67 - .69
Hydride, dms., works ..... lb. 2.15 - 3.00
Hypochlorite, high test, 45-lb. cs., dlvd. E. of Rockies cs. 22.60 -24.75
100-lb. dms., same basis dm 28.65 -32.50
Hypophosphite, dms., ton lots or less lb. .90 - .93
Iodide, jars ..... lb. 4.52 - —
Lactate, NF, dms., 10,000-lb. lots or more, works lb. .36 - .40
smaller lots, works lb. .41 - .48
Mandelate, USP, dms., works lb. 2.10 - 2.25
Naphthenate liq., 4% Ca., dms., frt. equald lb. .27¼ - —
Nitrate, fertilizer grade, bgs., c.l., Los Angeles ton 46.00 - —
tech., dms., works ..... lb. .13 - —
Pantothenate, jars, 100-gram lots or more, frt. adjusted gram. .06 - —
Para-aminosalicylate (see Calcium p-Aminosalicylate).
Phenolsulfonate, dms lb. .70 - —
Phosphate, dibasic, USP, bgs., c.l., frt. equald 100 lbs. 7.75 - —
l.c.l., frt. equald ..100 lbs. 8.50 - —

Calcium phosphate, dibasic, feed grade, 18½% P, bgs., c.l., t.l., frt. equald ..ton 74.00 -83.25
l.c.l., frt. equald ..ton 79.00 -93.25
21% P, bgs., c.l., t.l., frt. equald ..ton 94.50 - —
l.c.l., frt. equald ..ton 99.50 -104.50
monobasic, bgs., 10,000-lb. lots, frt. equald 100 lbs. 6.90 - —
smaller lots, same basis, 100 lbs. 7.40 - —
tribasic, NF, precip., bgs., c.l., frt equald 100 lbs. 8.25 - —
l.c.l., frt. equald 100 lbs. 9.00 - —
Phytate, bgs., works ..... lb. .50 - —
Resinate, precip., dms., frt. alld., works lb. .30½ - —
Silicate, hydrated, bgs., c.l., works. lb. .06 - —
l.c.l., works ..... lb. .06½ - —
paint grade (see Wollastonite).
Stearate, ctns., c.l. ..... lb. .37 - —
l.c.l ..... lb. .38 - .43
Sulfate (see Gypsum).
Calomel, USP, powd., dms ... lb 5.42 - —
Camphene 46° m.p., dms., incl., c.l., works lb. .15 - —
l.c.l., same basis ..... lb. .16½ - —
tanks, same basis ..... lb. .12½ - —
Chlorinated, 67-69% (see Toxaphene).
Camphor, monobromated, NF, dms., kgs lb. 3.25 - 3.67
nat. USP powd. cs., 100-lb. lots. lb. .85 - —
tablets, 1-oz., ½-oz. cs ... lb. .85 - —
syn., tech., 1 bbl. or more .... lb. .52 - —

Camphor, syn., USP, gran., powd., bbls., 2,000-lb. lots ..... lb. .59 - —
1,000-lb. lots ..... lb. .60 - —
smaller lots ..... lb. .61 - —
tablets, tins, 2,000-lb. lots lb. .90 - —
1,000-lb. lots ..... lb. .91 - —
smaller lots ..... lb. .92 - —
Canada balsam (see Fir balsam).
Cantharides, Chinese, cs ..... lb. 2.00 - 2.05
powd., bxs ..... lb. 2.25 - 2.30
Russian, bgs ..... lb. 4.00 - 4.05
powd., bxs ..... lb. 4.35 - 4.40
Capsicum (see Pepper red).
Oleoresin, NF, from domestic pepper, dms lb. 4.50 - 5.25
from African pepper, dms ... lb. 4.35 - 5.00
Caraway seed, Dutch, bgs ..... lb. .16½ - .17
Carbazole, 97%, bbls., ton lots, works lb. 1.05 - —
Carbon dioxide, indust., wholesale, bulk, dlvd metropolitan area. ton 73.00 -115.00
cyls., same basis ..... lb. .08 - —
solid, same basis ..... lb. .035 - .040
Disulfide, 55-gal. dms., c.l., works, frt. equald. to competitive points ..lb. .07 - —
l.c.l., same basis ..... lb. .08½ - .09
5-gal. dms., 30 dms. to c.l., same basis lb. .13 - —
less than 30 dms ..... lb. .16 - —
tanks, dlvd ..... lb. .0525- —

much more than meets the eye



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HOUSTON 1, TEXAS
A JOINT ENTERPRISE OF
FOOD MACHINERY AND CHEMICAL CORPORATION AND TENNESSEE GAS TRANSMISSION COMPANY

Carbon Tetrachloride—CMC, Crude

Carbon tetrachloride, CP, consumers dms., c.l., l.c.l., frt. alld lb. .11½-.13¾
tech. consumers, dms. c.l. E. Rockies, frt. alld lb. .10½- —
W of Rockies, f.o.b. stockpoints lb. .11 - —
l.c.l., E. of Rockies, frt. alld lb. .12¾- —
W of Rockies, f.o.b. stockpoints lb. .13¼- —
tanks, E. of Rockies, frt. alld lb. .09½- —
W of Rockies, f.o.b. stockpoints lb. .10 - —
Carboxymethyl cellulose (see CMC).
Carbromal, NF, dms., 100-lb. lots, works lb. 4.00 - 4.25
smaller lots, works lb. 4.10 - 4.75
Cardamom seed, bleached, "A" lb. 3.25 - —
"B" lb. 3.10 - —
decorticated, Ceylon, cs lb. 1.95 - —
Guatemalan, cs lb. 2.95 - —
green, Ceylon, bgs lb. 2.10 - 2.15
Carmine No. 40, NF, bulk, 100-lb. lots or more, dlvd lb. 14.40 —
smaller lots, dlvd lb. 14.50 - 15.20
Carotene, tech., 1,350,000 A units per gram, tins, 5-10 kilo lots, dlvd gram. .38 - —
in carrot oil, 5,000,000 to 8,500,000 A units per lb., dms., works, million units. .12 - —
Microcrystalline in oil, 400,000 A units per gram, dms., dlvd. million units. .36 - —

b-Carotene, pure, crystalline, 1,600,000 A units to 1,670,000 per gram., cns. gram. .35 - —
in vegetable oil, 400,000 A units per gram, cns. gram. .084 - —
Carvol, bots lb. 4.50 8.00
Cascara sagrada bark, bulk lb. .30 .31
Casein, dom., acid precip., standard, bgs., 10,000-lb. lots or more, shipt. point lb. .32 - .35
premium, bgs., 10,000-lb. lots or more, shipt. point lb. .38 - .40
imp., Argentine, acid-precip., grd., bgs., c.l., duty paid lb. .26½- .27½
New Zealand, same basis lb. .30 - —
Cashewnut shell liquid, treated, dms., c.l., Newark, N. J lb. .22 - —
ton lots, same basis lb 23 - —
dm. lots, same basis lb. .25 - —
Cassia, Batavia, cuttings, bls. lb. .18 - —
longstick, cracked, bls lb. .20 - —
shortstick, cracked, bls. lb. .19 - —
Corinje, bls. lb. .21 - —
Castor beans, bgs., f.o.b. Brazil ton. 125.00 Nom.
Oil (see Oil, castor).
Pomace, bgs., c.l., works ton. 40.00 - —
Castoreum, nat., cns lb 5.00 - 30.00
syn., cns lb 9.00 —
Catechol, CP, cryst., fib. dms., works lb. 2.17½- —
resub., dms., works lb. 4.28½- —
Catnip leaves, Southern, bls. lb. .75 - —

Celery seed, French, bgs. lb. .28 - —
Alleppey, bgs. lb. 2.15 - 2.20
Indian, bgs. lb. .16 - —
Cellulose acetate, flake, powd., ctns., bgs., 100-lb. lots or more, dlvd E lb. .35 46
Acetate-butyrate, powd., 17% butyryl content, bgs., dlvd E lb. .545 .555
27% butyryl content, bgs., dlvd. E lb. .595 .605
38% butyryl content, bgs., dlvd. E lb. .545 .555
50% butyryl content, bgs., dlvd E lb. .585 .595
half-second, bgs. dlvd E. lb .545 .555
Scrap (see Pyroxylin scrap).
Cerium chloride, dms., dlvd. lb. .35 —
Hydrate 74% CeO_2, fib. dms., 100-lb. lots or more lb. 1.44 - —
77% CeO_2 fib dms., 100-lb lots or more lb. 1.74 - —
Oxalate NF, bbls., bgs., works. lb. 1.32 - —
Oxide, optical grade, bgs., 50-lb. lots or more, dlvd lb 1.85 1.98
smaller lots, dlvd lb 2.03 2.23
Chalk (see Calcium carbonate)
Chamomile flowers Hungarian style, cs lb. .85 —
Roman, cs lb 1.50 —
Charcoal, activated, NF, fib dms., c.l., works lb. .25 .32
5-ton lots, works lb. .26½ 32½
smaller lots, works lb .27 .50
Bone (see Black, bone).
Hardwood, briquets, bulk, c.l., f.o.b. plant ton. 72.00 - 75.00
40-lb. paper bgs., same basis. ton. 76.00 - —

Charcoal, pinewood, gran., bgs., c.l., works, South ton. 57.00 - —
l.c.l., works, South ton. 57.00 - 67.00
lump, bgs., c.l., works, South. ton. 53.50 - —
l.c.l., works, South ton. 56.50 - 71.00
bulk, c.l., works, South ton. 33.00 —
t.l., works, South ton. 41.00 —
Chestnut extract, liq., 25% tannin, tanks, works lb. .04 —
powd., 60% tannin, bgs., extra, c.l., works lb. .103- —
l.c.l., works lb. .110- —
Chloral, tech., 94% min., dms., c.l., multiple units, 5 cars, works, l.c.l., works lb. .24 - —
tanks, works lb. .21 - —
Hydrate, USP, 40-lb. jars, 1,000-lb. lots lb 1.00 - —
500-lb. lots lb. 1.03 - —
100-lb. lots or less lb 1.05 - —
Chloramine T, NF, bbls., works lb. 75 1.00
Chlordan, agricultural, dms., c.l., frt alld lb. .65 —
l.c.l. 5,000 to 10,000-lb. lots, frt alld lb. .66 —
clarif., dms., c.l., frt alld lb. .69 - —
l.c.l. 5,000 to 10,000-lb. lots, frt. alld lb. .70 - —
Chlorinated paraffin, 42%, dms., c.l., frt. alld lb. .16¼- —
l.c.l., same basis lb. .17¼- —
70%, dms., c.l., same basis lb. .18¾- —
l.c.l., same basis lb. .19¾- —
Rubber, 5, 10, 20 cps., ctns., c.l., works lb. .55 - —
l.c.l., works lb. .56 - —
125, 1,000 cps. ctns. c.l. works lb. .65 —
l.c.l. works lb. .66 - —
Chlorine, liq., cyls., c.l., works, frt. equald lb. .10¼- —
l.c.l., Metropolitan area lb. .11¼- .13
tanks, single units, works, frt. equald 100 lbs. 3.05 —
multiple units, 5 cars, works, frt. equald 100 lbs. 3.92 - —
3 cars, same basis 100 lbs. 4.12 - —
2 cars, same basis 100 lbs. 5.12 - —
1 car, same basis 100 lbs. 7.12 - —
4-Chloro-2-aminotoluene, fused, bbls. lb. 1.45 - —
m-Chloroaniline, dms., c.l., frt. equald lb. .75 - —
l.c.l., same basis lb. .80 - —
o-Chloroaniline, dms., c.l., works, frt. equald lb. .70 - —
l.c.l., same basis lb. .72 - —
p-Chloroaniline, dms., c.l., works, frt. equald lb. .75 - —
o-Chlorobenzaldehyde, dms., t.l., works lb. 1.05 - —
l.t.l., works lb. 1.20 - —
p-Chlorobenzaldehyde, dms., c.l., works lb. 1.95 - 2.00
l.c.l., same basis lb. .77 - —
Chloroform, tech., dms., c.l., dlvd. E lb. .18 - —
l.c.l., same basis lb. .19 - —
tanks, same basis lb. .17 - —
USP, dms lb. .30 - —
2-Chloro-4-nitroaniline, paste, dlvd. E., 100% basis lb. .81 - —
powd., dlvd. E., 100% basis lb. .86 - —
4-Chloro-2-nitroaniline, powd., dlvd. E lb. .80 —
o-Chlorophenol, dms., c.l., frt. equald. lb. .35½- —
l.c.l., same basis lb. .36½- —
p-Chlorophenol, dms., c.l., frt. equald lb. .35½- —
l.c.l., same basis lb. .36½- —
Chlorophyll, oil-soluble, not fixed, 4%, pails, tins, works lb 4.25 —
copper fixed, 6½%, tins, pails, works lb. 4.23 - —
dms., pails, works lb. 3.75 - —
8%, pails, dms., works lb 4.00 4.80
14% dms. works lb 8.90 —
conc., dom., 50%, dms., works, 100% basis lb. 42.00 —
75% dms. works, 100% basis lb. 45.00 —
90% 100% dms., works, 100% basis lb. 45.00 - —
imp., 60%, tins, 100% basis, lb. 58.00 - —
75%, tins, 100% basis lb. 58.00 - —
90%, tins, 100% basis lb. 58.00 - —
Chloropicrin, coml., bots lb. 1.50 - —
cyls., 180 lbs., frt. alld lb. .95 - —
100 lbs., same basis lb. .97 - —
25 lbs., same basis lb. 1.22 - —
Choline bitartrate, fib. dms., frt. adjusted lb. 1.25 1.35
Chloride, fib. dms., frt. adjusted. lb. 1.25 1.35
Dihydrogen citrate, fib. dms., frt. adjusted lb. 1.25 1.35
Chromium acetate, soln., 7½%, bbls., works lb. .09½- —
cbys., works lb. .11¼- —
Fluoride, bbls., works lb. .51 - .52
Green (see Green, chrome).
Oxide (see Green chromium oxide).
Trioxide, NF, bots lb. .82 - .89
Yellow (see Yellow chrome).
Cinchona bark, NF, red, broken, bgs lb. .35 - .40
yellow broken, bgs lb. .35 - .40
Cinchonidine, cryst., cns., 100-oz. lots. oz. .65 - —
Sulfate, cns., 100-oz. lots oz. .35 - —
Cinchonine, cryst., cns., 100-oz. lots. oz. .52 - .57
Sulfate, NF, cns., 100-oz. lots oz. .27½- .30½
Cinchophen, NF, heavy density, dms., frt. adjusted lb. 3.70 - 4.05
standard density, dms., same basis lb. 3.50 - 3.85
Cinchophen-sodium, dms., frt. adjusted lb. 4.50 - 4.85
Cinnamic alcohol (see Alcohol cinnamic).
Aldehyde, cns., dms. lb. 1.00 1.30
Cinnamon, Ceylon, No. 2, bgs. lb. .76 - .77
"000," bgs., afloat lb. .96 - —
Citral bots., cns. lb. 4.60 - 5.00
Citronellal, bots., dms. lb. 3.10 - —
Citronellol, bots., dms. lb. 4.85 - 5.15
Civet, artif., bots lb. 13.75 - 15.00
nat., bots oz. 7.50 - 15.00
Clay, ball, dom., airfloated, bgs., c.l., Tenn. ton. 19.50 - —
crushed, shed moisture, bulk, c.l., Tenn ton. 10.00 - —
purif., bgs., c.l., Tenn ton. 20.50 - —
imp., airfloated, bgs., c.l., Atl. port, long ton. 42.00 - 45.00
lump, bulk, Atl. port, long ton. 27.00 - 30.20
China, dom., dry-grd., airfloat, 99%, 325 mesh, bgs., c.l., Georgia, works ton. 10.00 - —
l.c.l., Georgia, works. ton. 15.50 - —
300 mesh, bgs., c.l., Georgia, works ton. 13.50 - 14.50
l.c.l. ton. 35.00 - 36.00
imp., white, lump, bulk, c.l., ex dock, Phila., Portland, Me. gross ton. 20.00 - 35.00
pow'd., bgs., c.l., ex dock net ton. 50.00 —
l.c.l., ex whse. net ton. 60.00 - 65.00
Clove, Madagascar, bgs lb. .40 - .41
Zanzibar, bgs. lb. .48 - —
CMC, crude, 96%, low or medium vis., bgs., or fib. dms., 23,000 lbs., dlvd. E., 100% basis. lb. .37 - —
less than 23,000 lbs., dlvd. E., 100% basis lb. .41 - —

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J & L STEEL CONTAINERS
CAN TAKE IT

J&L Steel Drums and Pails meet the most rigid tests for durability because:

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2 J&L Drums and Pails are made with care and accuracy in every detail.

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The J&L line includes all types of Closures and Finishes. Bright, colorful decorations may be reproduced to your specifications. Heavy-duty ICC Drums. Light-gauge Drums. 55, 30 and 15 gal. capacity and 100-lb. Grease Drums. Lightweight Drums for Chemical and Powdered Materials. 1-10 gal. capacity Steel Pails for Foods, Chemicals, Oils.

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STEEL CORPORATION — Pittsburgh
CONTAINER DIVISION
405 Lexington Ave., New York 17, New York

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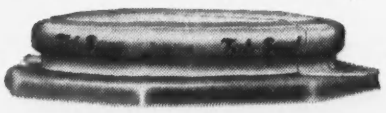
Companies like Neville—who believe that quality products should have quality *protection*—have found that Tri-Sure Closures create good-will. For the Tri-Sure *Flange, Plug* and *Seal* are accepted the world over as assurance that the exact quantity and quality put into the container is delivered.

Why compromise with the safety of *your* products—or the good-will of *your* customers? You can be *sure*—with Tri-Sure Closures. Eliminate leakage and losses—prevent tampering and pilferage—by specifying "Tri-Sure Closures" when you order drums.

The Sign of a  **Perfect Seal**

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**The "Tri-Sure" Trademark is a mark of reliability backed by over 35 years serving industry. It tells your customers that genuine Tri-Sure Flanges (inserted with genuine Tri-Sure dies), Plugs and Seals have been used.*

AMERICAN FLANGE & MANUFACTURING CO. INC., 30 ROCKEFELLER PLAZA, NEW YORK 20, N.Y.
CHICAGO, ILL. • NILES, OHIO • LINDEN, N. J.
Tri-Sure Products Limited, St. Catharines, Ontario, Canada
Tri-Sure S/A Indústria e Comércio, Sao Paulo, Brazil
B. Van Leer N. V., Stadhouderskade 6, Amsterdam, Holland.
Van Leer Industries, Ltd., Seymour House, 17 Waterloo Place, Pall Mall S.W. 1, London, England

CMC, Crude—Defluorinated Phosphate

CMC, crude, 65%, low or medium vis., bgs., or fib. dms., c.l., dlvd. E., 100% basis lb. .37 - —
l.c.l., dlvd E., 100% basis. lb. .41 - —
purif., high vis. (see Gum Cellulose).
standard, low or medium vis., bgs., 23,000 lbs. or over, works, frt. alld lb. .55 - —
smaller lots, same basis lb .57 - —
CMC prices W. of the Rockies are 2c per lb. lower, and are on a works basis.
Coaltar, crude, resale for soins., dms., c.l., ex-whse gal. .255 - —
l.c.l. ex-whse gal. .275 - —
tanks, ex works gal. .155 - .159
refd., resale, dms. c.l., ex-whse. gal. .2650- .32
l.c.l., ex-whse gal. .2850- .34
tanks, ex-whse gal. .1650- .1760
Cobalt acetate, 23.7%, dms., dlvd. lb. 1.20 - —
Carbonate, 46% powd., bgs., dlvd. lb. 1.85 - —
Chloride, 24.2% Co., dms., dlvd. lb. 1.20 - —
Hydrate, 60-61% Co., dms., dlvd. lb. 2.62 - —
Linoleate, fused, 8½% Co., dms. lb. .75¾- —
liq., 6% Co., dms lb. .61 - —
Metal, 97-99%, kgs., ex whse lb. 2.60 - —
Naphthenate, liq., 6% Co., dms., dlvd lb. .48¼- —
Nitrate, 20.1% Co., bbls., dlvd lb. 1.00 - —

Cobalt oxide, black, 72½-73½% Co., kgs lb. 1.96 - —
70-71% Co., kgs lb. 1.90 - —
Phosphate, powd., 32.1% Co., kgs., dlvd lb. 1.69 - —
Resinate, fused, 3% Co., dms. lb. .29¾- —
Sulfate cryst., 21% Co., dms., dlvd lb. .79 - —
monohydrated, 33% Co., dms., dlvd lb. 1.32 - —
Tallate, 6% Co., dms., dlvd lb. .43¾- —
Cocaine, USP, cns., 100-oz. lots oz. 17 80 - —
Hydrochloride, cns., 100-oz. lots. oz. 13 75 - —
Cocillana bark, bgs lb. .48½- .50
Cocoa butter, bgs lb. .47 - .51
Codeine, NF, cns., 100-oz. lots oz. 13.25 - —
Hydrochloride, cns., 100-oz. lots. oz. 11 75 - —
Phosphate, USP, cns., 100-oz. lots oz. 10 25 - —
Sulfate, USP, cns., 100-oz. lots oz. 10 75 - —
Codliver oil (see Oil, codliver).
Cohosh root, black, bls lb. .20 - .22
blue, bls lb. .20 - .22
Colchicine, USP, bots., cns. oz. 33 50 - 40 00
Colchicum root, bls lb. .45 - .55
seed, bgs lb. .75 - 1.00
Collodion, USP, dms. lb. .32½- —
flexible, dms lb. .34 - —
Colocynth, pulp, bls lb. .25 - .30
Colombo root, bls lb. .15 - .16
Condurango bark, bales lb. .40 - .50
Copaiba balsam, cns., dms lb. .90 - 1.20

Copper acetate, bbls., c.l., works lb. .43 - —
l.c.l., works lb. .44 - —
Carbonate, 55%, bgs., c.l., works. lb. .3825- —
l.c.l., works lb. .3975- —
Chloride, anhyd., bbls., works lb. .50¾- .54¼
cryst., bbls., works lb. .35¼- .36¼
Cyanide, tech., bbls., 20,000-lb. lots or more lb. .80½- —
1,000-lb. lots or more lb. .81½- —
smaller lots lb. .83½- —
Gluconate, dms lb. 3.15 - 3.30
Hydrate, dms., c.l., frt. alld. E. Miss lb. .57 - —
l.c.l., same basis lb. .57½- —
Metal, electrolytic, dlvd., Valley basis lb. .46 - —
Naphthenate, liq., 8% Cu, dms., frt. alld lb. .24 - —
Nitrate, tech., cryst., bbls., works. lb. .33¼- —
Oleate, solid, 9% Cu, dms., works lb. .45 - —
Oxide, black, bbls., 100-2,000-lb. lb. lots, works lb. .57 - .64½
red, 97%, USN Type I, 100-5,000 lb. lots, bbls lb. .69½- .83½
90%, USN Type II, bbls., 100-5,000 lots or more, works. lb. .57½- .67½
Oxychloride, dms., c.l., works lb. .55 - —
l.c.l., works lb. .55½- .65½
Quinolinolate, fib, dms lb. 4.25 - 4.50
Resinate, precip., dms., frt. alld lb. .31½- —
Sulfate, CP, gran., bbls., works lb. .2260- —
cryst., 99%, bgs., c.l., works. 100 lbs. 15.70 - —
l.c.l., same basis 100 lbs 16.20 - 18.70

Copper sulfate, monohydrated, 36% dms., c.l., works 100 lbs. 25.35 - —
l.c.l., works 100 lbs. 26.10 - —
tribasic, dealers, bgs., c.l., works, frt. equald 100 lbs. 33.85 - —
l.c.l., same basis 100 lbs. 34.85 - 37.85
Undecylenate, dms lb 2.00 - 3.00
Copra, Atlantic, Gulf ports, c.i.f. ton. 155.00 - —
Pacific ports, c.i.f. ton. 150.00 - —
Coriander seed, Moroccan, bgs. lb. .10 - .10½
Roumanian, bgs lb. .08½- —
Yugoslavian, bgs lb. .08¾- .09
Corn sugar, tanners, chipped, paper bgs., c.l., 60,000 lbs. min. 100 lbs. 7.11 - —
l.c.l. 100 lbs. 7.26 - —
Syrup, 42°, dms., c.l. 100 lbs. 7.08 - —
l.c.l. 100 lbs. 7.23 - —
Corrosive sublimate (see Mercuric chloride).
Cortisone acetate, NNR, bulk gram. 3.50 - 3.55
Cottonseed meal, exp. 41%, bgs., Memphis ton. 52.00 - —
solv., same basis ton. 50.00 - —
Cramp bark, NF, bls lb. 85 - .90
Coumarin, NF, cryst., dms. lb. 3.20 - 3.45
Cream of tartar (see Potassium bitartrate).
Creosote carbonate, NF, bots, cbys. lb. 3.05 - 3.26
Coaltar, crude, tanks, works, frt. adjusted gal. .22 - —
soln., 80% tanks, works gal. .2068- —
refd., dms., c.l., works gal. .40 - .42
l.c.l., same basis gal. .50 - .53
tanks, same basis gal. .30 - .33
Wood, beechwood, cbys., dms. lb. 1.60 - 1.65
hardwood, NF, bots., cbys lb. 1.30 - 1.35
pinewood, dms., l.c.l., incl. lb. .0634- —
c.l., incl lb. .0561- —
tanks, works lb. .0460- —
N.Y. whse., dms., l.c.l. incl. lb. .0745- —
Cresol, tech., 50% below 204°C., dry above 207°C., wide distillation range, non-ret. dms., c.l., frt. equald lb. .1625- —
l.c.l., same basis lb. .1675- —
tanks, same basis lb. .145 - —
USP, non-ret., dms., c.l., same basis lb. .1775- —
l.c.l., same basis lb. .1825- —
tanks, same basis lb. .160 - —
m-Cresol, 95-98%, dms., c.l., works. lb. .60 - —
l.c.l., works lb. .61 - —
m-p-Cresol, 5-95%, 3°C., dms., c.l., frt. equald lb. .1775- —
l.c.l., same basis lb. .1825- —
tanks, same basis lb. .160 - —
m-p-Cresol, 2-97%, 2°C., dms., c.l., frt. equald lb. .2175- —
l.c.l., same basis lb. .2225- —
tanks, same basis lb. .200 - —
o-Cresol, m.p. over 30°C., ret. dms., c.l., frt. equald lb. .173 - —
l.c.l., same basis lb. .176 - —
tanks, same basis lb. .16 - —
29°C., ret. dms., c.l., frt. equald, lb. .16 - —
l.c.l., same basis lb. .16½- —
tanks, same basis lb. .15 - —
25-29°C., dms., c.l., frt. equald lb. .153 - —
l.c.l., same basis lb. .156 - —
tanks, same basis lb. .14 - —
p-Cresol, 98%, dms., c.l., dlvd. lb. .50 - —
l.c.l., dlvd lb. .51 - —
tanks, dlvd lb. .49 - —
Methyl ether, cns lb. 1.90 - 2.50
Crotonaldehyde, 91-93%, dms., l.c.l., works lb. .24¼- .25
Cryolite, nat., indust., bgs., c.l., works 100 lbs. 13.00 - —
l.c.l., works 100 lbs. 14.25 - —
insecticide, dealers, bgs., c.l., dlvd 100 lbs. 16.75 - —
l.c.l., dlvd 100 lbs. 17.75 - —
Cube root, powd., 5% rotenone, bgs., c.l., t.l., works lb. .27 - .30
l.c.l., works lb. .28 - .31¼
Cubeb berries, XX, NF, bgs lb. .60 - .65
powd., cs lb. .75 - .80
Cumene, dms., c.l., works lb. .12 - —
l.c.l., works lb. .14 - —
tanks, works lb. .11 - —
Cumin seed, Iranian, bgs lb. .15½- .16
Turkish, bgs. lb. .14½- .15
Cutch extract, 55% tannin, bgs., ex dock, duty extra lb. .08¼- —
Cyanamide, fertilizer mixing grades, 21% N, gran., bgs., Niagara Falls, Ont., contract ton. 55.00 - —
pulv., 21% N, bgs., works, unit-ton 2 75 - —
indust. grade, bgs., c.l., works ton. 75.00 - —
l.c.l., bgs., works ton. 96.00 - —
6-16 mesh, dms. c.l., works ton. 120 00 - —
l.c.l., works ton. 140.00 - —
Cyclohexane, 99%, tech., dms., c.l., works gal. .70 - —
l.c.l., works gal. .72 - —
tanks, works gal. .55 - —
Cyclohexanol, tech., dms., c.l., works, frt. alld., E lb. .28½- .37¾
l.c.l., works, same basis lb. .30 - .38¼
tanks, works, same basis lb. .27 - .36¼
Cyclohexanone, tech., dms., c.l., works lb. .33½- —
l.c.l., works lb. .35 - —
tanks, works lb. .32 - —
Cyclohexene, min. 98%, b.r. 82.5°C-85°C, 360-lb. dms., c.l., works lb. .55 - —
l.c.l., same basis lb. .60 - —
tanks, same basis lb. .52 - —
Cyclohexylamine, dms., c.l., works. lb. .46½- —
l.c.l., works lb. .48½- —
tanks, works lb. .45 - —
Cyclopropane, CP, 2-lb. cyls., works. cyl. 48.00 - —
6 oz. cyls., works cyl. 12.00 - —
USP, hospitals, cyls., 40-gal. lots, gal. .38 - —
100-gal. lots gal. .37 - —
200-gal. lots gal. .36 - —

D

2-4-D, tech., dms., c.l., works, frt. equald lb. .37 - —
l.c.l., same basis lb. .42 - .46
Butyl ester, dms., c.l., works. lb. .40 - —
l.c.l., same basis lb. .45 - .49
tanks, same basis lb. .39 - —
Isopropyl ester, dms., c.l., works. lb. .40 - —
l.c.l., works lb. .45 - .49
tanks, works lb. .39 - —
Dandelion root, bls lb. .35 - .40
DDD, tech., flake, grd., fib. bgs., c.l., works lb. .45 - —
l.c.l., works lb. .46 - —
DDT powder, bgs., c.l., works, frt. equald lb. .23 - .27
smaller lots, same basis lb. .25 - .26¾
fib. dms., c.l., same basis lb. .24 - .28
smaller lots, same basis lb. .26 - .27¾
1-Decanol, tech., dms., c.l., dlvd. lb. .41 - —
l.c.l., dlvd. lb. .43 - —
tanks, dlvd. lb. .38½- —
Deertongue leaves, bls lb. .45 - —
Defluorinated phosphate, feed grade, 13% P, paper bgs., c.l., t.l., works ton. 49.50 - —
14½% P, paper bgs., c.l., t.l., works ton. 48.00 - —
17% P, paper bgs., c.l., t.l., works ton. 56.00 - —
18% P, paper bgs., c.l., t.l., works ton. 62.10 - —

CONOCO H-300* the extender of profit

Try it as a secondary plasticizer with polyvinyl chloride resins.

As a primary plasticizer extender, the advantages of Conoco H-300 merit the consideration of all quality-minded and cost-conscious formulators using polyvinyl chloride resins. Some of these are:

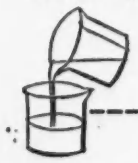
EXCEPTIONAL LIGHT STABILITY

Tests prove that films containing Conoco H-300 show light resistance equal to, or better than, those with no extenders—a unique contribution in the field of secondary plasticizers.

UNUSUAL LOW TEMPERATURE FLEXIBILITY

Marked improvement in low temperature flexibility is shown in films made with Conoco H-300.

SUPERIOR VISCOSITY CONTROL



Mixtures containing Conoco H-300 have appreciably lower initial and aged viscosities.

ECONOMY

Can save the processor as much as 2 cents per pound on the finished product. Conoco H-300 can be used to the extent of 25% of the total plasticizer required.

IMPROVED MIXING

Formulations are more readily mixed because of fast wetting and internal lubricating properties.

Write for your copy of the new booklet on Conoco H-300, the Extender of Profit: Continental Oil Company, Petrochemical Department, Division D3 630 Fifth Avenue, New York 20, New York—1353 No. North Branch Street, Chicago, Illinois.

Conoco H-300 is available in either tank cars or drums. Samples available on request.

CONOCO Petrochemicals

*Conoco H-300 was formerly called Conoco H-340. The change in name does not affect the quality of the product in any respect whatsoever. Chemical properties of Conoco H-300 remain the same.

Petrochemical know-how from the ground up!

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CONTINENTAL OIL COMPANY

Degras, common, bbls ..... lb. .11 - .12
neutral, less 2% f.f.a., bbls .... lb. .21 - .22
over 2% f.f.a., bbls ..... lb. .20 - 21
d-Desoxyephedrine hydrochloride bots. 24.00 -25.00
dl, bots. ..... lb 6.50 —
Dextrin, corn, gum, paper bgs., c.l. 100 lbs. 9.15 - —
l.c.l. ..... 100 lbs. 9.30 - —
canary, paper bgs., c.l. 100 lbs. 8.89 - —
l.c.l. ..... 100 lbs. 9.04 - —
dark, paper bgs., c.l. .. 100 lbs. 8.89 - —
l.c.l. ..... 100 lbs. 9.14 - —
white, paper bgs., c.l. 100 lbs. 8.73 - —
l.c.l. ..... 100 lbs. 8.88 - —
Corn dextrin in cotton bgs. 25c. per 100 lbs higher.
Potato, imported, bgs ..... lb. .10½- .11
Dextrose, USP, dms ..... lb. .17¾- —
Diacetone (see Alcohol diacetone).
Diacetyl, flavor grade, bots lb. 4.50 5.50
Di-sec-amyl phenol, dms., c.l., works lb. .30¾- —
l.c.l. works ..... lb. .32¼- —
tanks, works ..... lb. .28¾- —
Di-tert-amyl phenol, dms., c.l., works lb. .30¾- —
l.c.l., works ..... lb. .32¼- —
tanks, works ..... lb. .28¾- —
o-Dianisidine fib. dms ..... lb. 2.00 —
Dibenzyl sebacate dms., c.l., works. lb. .89¾ .90
l.c.l. same basis ..... lb. .90¼- .91
tanks, same basis ..... lb. .88 - —
p-Dibromobenzene bgs., 500-lb. lots. lb. .55 - —
Dibutyl phthalate, dms., c.l., dlvd. E lb. .32 - —
l.c.l., same basis ..... lb. .33 - —
tanks, same basis ..... lb. .30 - —
Sebacate, dms., c.l., works ... lb. .66 - —
l.c.l., works ..... lb. .66½- .67
tanks, works, dlvd ..... lb. .64 - .64½
Tartrate dms works, frt. alld. lb. .64 - —
Dibutylamine, dms., c.l., dlvd ... lb. .55 - —
l.c.l., same basis ..... lb. .56 - —
tanks, same basis ..... lb. .53 - —
2,6-Di-tert-butyl-p-cresol, dms., c.l., dlvd. lb. .91 - —
l.c.l., dlvd. ..... lb. .95 - —
Dicaprvl phthalate, dms., c.l., dlvd., lb. .30½- .31½
l.c.l. dlvd ..... lb. .31½- .32½
tanks, dlvd ..... lb. .29½- —
Sebacate, dms., c.l., works ... lb. .63 - —
l.c.l., works ..... lb. .63½- .64
tanks, works ..... lb. .61 - —
2,5-Dichloroaniline, dms., works lb. .83 - —
o-Dichlorobenzene, dms., c.l., frt. alld. E lb. .12¼- —
l.c.l., same basis ..... lb. .13¼- —
tanks, same basis ..... lo. .10¾- —
p-Dichlorobenzene, dms., c.l., frt. alld. E lb. .14½- —
l.c.l., same basis ..... lb. .17 - —
1,4-Dichlorobutane, dms., c.l. or t.l., works lb. .33½- —
l.c.l., or l.t.l., works ..... lb. .34 - —
tanks, works ..... lb. .32 - —
Dichlorodiphenyltrichloroethane (see DDT).
Dichloropentanes, dist., dms., c.l., works lb. .05 - —
l.c.l., works ..... lb. .05¾- —
tanks, works ..... lb. .04¼- —
Dicyclohexylamine, dms., c.l., works. lb. .51 - —
l.c.l., works ..... lb. .51¾- —
tanks, works ..... lb. .49½- —
Dicyclohexyl phthalate, fib. dms., c.l., works, frt. alld. lb. .58¼- .59
l.c.l., same basis ..... lb. .59¼- .60
Didecyl phthalate, works., dms., c.l. lb. .33½- —
l.c.l. same basis ..... lb. .34½- —
tanks, same basis ..... lb. .31½- —
Dieldrin, dms., frt. alld ..... lb. 1.80 - —
l.c.l., frt. alld ..... lb. 1.85 - —
Diethanolamine, dms., c.l., dlvd. E. lb. .26½- —
l.c.l., same basis ..... lb. .27½- —
tanks, same basis ..... lb. .24½- —
Diethyl carbonate, dms., c.l., frt. alld lb. .47 - —
l.c.l. same basis ..... lb. .48 - —
tanks, same basis ..... lb. .45 - —
Ethanolamines dms., c.l., dlvd. lb. .69 - —
l.c.l. dlvd ..... lb. .70 - —
tanks, dlvd ..... lb .67 - —
Oxalate, dms., c.l., frt. alld. lb. .42 - —
l.c.l. same basis ..... lb. .43 - .45
tanks same basis ..... lb. .40 - —
Phthalate, dms., c.l., dlvd ..... lb. .27 - —
l.c.l., dlvd ..... lb. .28 - —
tanks, dlvd ..... lb. .25 - —
Sulfate dms., c.l., works ..... lb. .18¾- —
l.c.l., works ..... lb. .19¼- —
tanks, works ..... lb. .17 - —
Diethylamine, dms., c.l., dlvd. E lb. .20½- —
l.c.l., same basis ..... lb. .51½- —
tanks, same basis ..... lb. .48½- —
N,N-Diethylaniline, dms., c.l., frt. alld lb. .51 - —
l.c.l. same basis ..... lb. .52 - —
tanks, same basis ..... lb. .50 - —
Di-2-ethylhexyl adipate (see Dioctyl adipate).
Phthalate (see Dioctyl phthalate).
Diethylene glycol, dms., c.l., dlvd. E. lb. .17¼- —
l.c.l., same basis ..... lb. .18¼- —
tanks, same basis ..... lb. .15¼- —
Boriborate, dms., l.c.l. ..... lb. .31 - —
Diethyl ether, dms., works. lb. .47½- —
l.c.l., works ..... lb. .48 - —
Monobutyl ether, dms., c.l., dlvd. E. lb. .30¼- —
l.c.l., dlvd. E ..... lb. .31¼- —
tanks, dlvd. E ..... lb. .28¼- —
Acetate, dms., c.l., works. lb. .30 - —
l.c.l., works ..... lb. .30½- —
tanks, dlvd. E ..... lb. .28¼- —
Monoethyl ether, dms., c.l., dlvd. lb. .22 - —
l.c.l., dlvd ..... lb. .23 - —
tanks, dlvd ..... lb. .20 - —
acetate, dms., c.l., works lb. .26¾- —
l.c.l. works ..... lb. .27¼- —
tanks, dlvd. E ..... lb. .25¼- —
Monomethyl ether, dms., c.l., dlvd. lb. .20½- —
l.c.l., dlvd ..... lb. .21½- —
tanks, dlvd ..... lb. .18½- —
Diethylenetriamine, dms., c.l., dlvd. E. lb. .43½- —
l.c.l., dlvd. E ..... lb. .44½- —
tanks, dlvd. E ..... lb. .41½- —
Diethylstilbestrol, USP, bots., 10-kilo lots. kilo. 100.00 -147.50
kilo. 110.00 -152.50
Digitalis leaves, USP, dom., dms., lb .90 - 1.10
Digitoxin, USP, bots ..... gram. 5.00 - 5.50
Diglycol laurate, dms ..... lb. .35 - .38
Stearate dms., ton lots ..... lb. .25 - —
Dihexyl sebacate, dms., c.l., works. lb. .64 - —
l.c.l., works ..... lb. .64½- .65
tanks, works ..... lb. .62 - —
Dihydrazine sulfate, dms., works. lb. 1.10 - 1.25
Dihydrostreptomycin hydrochloride, bulk ..... gram. .063 - .07
Sulfate bulk ..... gram. .063 - .07
1,2-Dihydroxy anthraquinone, dms., works lb. 2.75 - —
2,2-Dihydroxy-5-5-dichloro-diphenyl-methane, pure, dms. lb. 2.55 - —
tech., dms ..... lb. 1.09 - —

Di-isobutyl ketone, dms., c.l., dlvd. lb. .16 - —
l.c.l., dlvd ..... lb. .17 - —
tanks, same basis ..... lb. .14 - —
Phthalate, dms., c.l., dlvd. E lb. .31 - —
l.c.l. same basis ..... lb. .32 - —
tanks, same basis ..... lb. .29 - —
Di-isobutylene dms., c.l., dlvd. E lb. .10 - —
l.c.l., dlvd. E ..... lb. .11 - —
tanks, dlvd E ..... lb. .08 - —
Di-iso-octyl phthalate, dms., c.l., dlvd lb. .32½- —
l.c.l., same basis ..... lb. .33½- —
tanks, same basis ..... lb. .30½- —
Sebacate, dms., c.l., works ... lb. .63 - —
l.c.l., works ..... lb. 63½- .64
tanks, works ..... lb. .61 - —
Di-isopropanolamine dms., c.l., dlvd. lb. .22¾- —
l.c.l., same basis ..... lb. .23¾- —
tanks, same basis ..... lb. .20¾- —
Di-isopropylamine, dms. c.l., dlvd. E. of Rockies lb. .50 - —
l.c.l., same basis ... lb. .51 - —
tanks, same basis ... lb. .48 - —
Dillseed, dewhiskered, bgs ..... lb. .10 - .10½
nat., bgs. ..... lb. .09 - —
Dimethyl antnranilate, cns. lb. 5.25 - 5.75
Chloroacetal dms., c.l., works lb. .45 - —
l.c.l., works ..... lb. .50 - —
tanks, works ..... lb. .40 - —
Dimethyl ethanolamines, anhyd., dms., c.l., dlvd. lb. 1.43 - —
l.c.l. dlvd lb. 1.45 - —
tanks, dlvd lb 1.40 - —
70%, dms., c.l., dlvd., 100% basis, contained lb. .68 - —
l.c.l., dlvd., 100% basis lb. .69 - —
tanks, dlvd. 100% basis lb. .66 - —
Hydroquinone, dms. ..... lb. 1.70 2.75
Phthalate, dms., c.l., works. lb. .29½- —
l.c.l., works ..... lb. .30½- —
tanks, dlvd ..... lb. .27½- —
tanks, works ..... lb. 1.25 - —

Dimethyl sebacate, dms., c.l., works. lb. 1.27 - —
l.c.l. works lb 1.28 - —
Sulfate, 55-gal. ret. dms., c.l. works lb. .15 - —
l.c.l. works lb .16 - —
10-gal ret. dms., l.c.l., works. lb. .16½- —
Dimethylamine, 25% soln., dms., c.l., frt equald lb. .42 - —
l.c.l. frt equald lb. .42½- —
tanks, frt. equald lb. .33 - —
40% soln., dms., c.l., frt. equald lb. .39 - —
l.c.l. frt. equald lb. .39½- —
tanks, frt equald lb. .33 - —
N,N-Dimethylaniline, dms., c.l., frt. alld lb. .29½- —
l.c.l. frt alld ..... lb. .30½- —
tanks frt alld ..... lb. .28½- —
N,N-Dimethylformamide dms. works. lb. .34 - .39
tanks works lb. .32 - —
2,4-Dinitroaniline, dms., 1,000-lb. lots, frt. equald lb. .68 - —
smaller lots ..... lb. .71 - —
m-Dinitrobenzene, 85°C., dms ... lb. .22 - —
89°C., dms ..... lb. .24 - —
2,4-Dinitrochlorobenzene, crystalizing at 46½°C., dms., c.l., frt. alld. E lb. .15¼- —
l.c.l., frt. alld E ..... lb. .15¾- —
tanks, frt. alld E ..... lb. .15 - —
Crystalizing at 48°C., dms., c.l., frt. alld. lb. .20¼- —
l.c.l. ..... lb. .20¾- —
tanks ..... lb. .20 - —
2,4-Dinitrophenol, bbls ..... lb. .37 - —
2,4-Dinitrotoluene, oily, dms .... lb. .11 - —
refd., 63°C., dms ..... lb. .23 - —

Dioctyl adipate, dms., c.l., works. lb. 44½ —
l.c.l. works ..... lb. 45½ —
tanks, works ..... lb. 42½ —
Phthalate dms., c.l., frt. alld lb. .32½- —
l.c.l., frt alld ..... lb. .33½- —
tanks, frt. alld ..... lb. 30½ —
Sebacate, dms. c.l., works, lb. .60 —
l.c.l., works ..... lb. .60½- .61
tanks, works dlvd ..... lb. .58 58½
Di-o-tolylguanidine, dms., ton lots, frt. alld lb. .60 - —
smaller lots, frt. alld ..... lb. .61 - —
1,4-Dioxane, dms., c.l., works ... lb. .28¾- —
l.c.l., same basis ..... lb. .29¼- —
tanks, same basis ..... lb. .27 - —
Dip oil (see Tar acid oil)
Dipentaerythritol, bgs., l.c.l., works. lb. .35 - —
Dipentene, dest-dist., dms., c.l., works gal. .47 - —
l.c.l., works ..... gal. .52 - —
ex-whse ..... gal. .62 - —
steam-dist., dms., c.l., works, South gal. .59 - —
dlvd. N. Y ..... gal. .67 - —
tanks works, South ..... gal. .45 - —
Diphenyl, bbls., c.l., works ..... lb. .15 - —
l.c.l., works lb. .16 - —
Diphenyl in bags ¼c. lower.
Oxide, perfume grade, cns lb. .54 .61
Phthalate, dms., c.l., works .. lb. .51¾- —
l.c.l. works lb. .52¾- —
Diphenylguanidine, bgs., dms., ton lots, frt. alld lb. .50 - —
smaller lots frt. alld ..... lb. .51 - —
Diphenylhydantoin-sodium USP, dms. lb. 5.00 - 5.60

MONTROSE
CHEMICAL COMPANY

104-112 LISTER AVENUE

NEWARK, NEW JERSEY

tricresyl phosphate

.....

dioctyl phthalate

.....

dibutyl phthalate

.....

EXCLUSIVE SALES AGENTS

R. W. GREEFF & CO., INC.

10 ROCKEFELLER PLAZA, NEW YORK 20, N. Y.

2205 TRIBUNE TOWER, CHICAGO, ILLINOIS

Dipropylene Glycol—Ethyl Ether

Dipropylene glycol, dms., c.l., frt. alld lb. .17¼- —
l.c.l., same basis lb. .18¼- —
tanks, same basis lb. .15¼- —
Monomethyl ether, dms., c.l., divd. E lb. .20 - —
l.c.l., same basis lb. .21 - —
tanks, same basis lb. .18½- —
Divi-divi, 45% tannin, bgs., bls., c.l., U.S ports, exdock ton 70.00 -72.00
Divinylbenzene 20-25% dms., c.l., works, frt. equald lb. .20 - —
l.c.l., same basis lb. .21 - —
tanks, same basis lb. .19 - —
50-60%, dms., c.l., works, 100% basis lb 1.00 - —
l.c.l., works, 100% basis lb. 1.05 - —
Dodecylbenzene, dms., c.l., frt. divd lb. .14 - —
l.c.l., same basis lb. .15 - —
tanks, same basis lb. .12 - —

Dyes, coaltar, certified colors for food, drugs and cosmetics, 500-lb. and 1-lb. lots, divd:—
Blue, FD & C, No. 1 lb.15.65 -17.60
No. 2 lb.15.65 -17.60
Green, FD & C, No. 1 lb.15.65 -17.60
No. 2 lb.19.60 -22.85
No. 3 lb.21.30 -35.90
Red, FD & C, No. 1, cns lb. 5.90 - 7.85
No. 2 lb. 3.30 - 4.10
No. 3 lb.19.60 -22.85
No. 4 lb. 5.55 - 7.50
Violet, FD & C, No. 1, cns lb.15.65 -17.60
Yellow, FD & C, No. 1, cns lb. 9.15 -11.05
No. 5 lb. 3.30 - 4.10
No. 6 lb. 3.30 - 4.10

Dyes, coaltar, certified colors for drugs and cosmetics, 200 lb. and 1 lb. lots, divd:—
Black, D&C, No. 1 lb.10.50 -10.95
Brown, D&C, No. 1 lb.15.65 -16.10
Green, D&C, No. 5 lb.15.65 -16.10
No. 6 lb.15.65 -16.10
No. 7 lb.14.35 -14.80
Orange, D&C, No. 3 lb.10.50 -10.95
No. 4 lb.19.60 -20.05
No. 5 lb. 5.25 - 5.70
No. 17 lb.10.50 -10.95
No. 18 lb.23.55 -24.00
No. 19 lb.15.00 -15.45
No. 21 lb. 3.10 - 3.60
No. 22 lb.10.50 -10.95
No. 30 lb.24.20 -24.65
No. 33 lb.17.00 -17.45
Violet, D&C, No. 2 lb.15.66 -16.10
Yellow, D&C, No. 7 lb.10.50 -10.95
No. 8 lb.10.50 -10.95
No. 10 lb.13.05 -13.50
No. 11 lb.13.05 -13.50

Dyes, coaltar, certified colors for drugs and cosmetics, external use, 1-lb. lots, works, 25-50 lb. lots, divd:—
Blue, Ext., D&C, No. 1, cns lb.15.65 -16.10
Green, Ext., D&C, No. 1, cns lb.15.65 -16.10
Red, Ext., D&C, No. 1, cns lb.13.05 -13.50
Yellow, Ext., D&C, No. 1, cns lb.10.50 -10.95

Dyes, coaltar, for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype), contract, divd., No.
20 Chrysoidine Y, dustless lb. .89 - —
27 Fast light, orange 2G lb. 1.09 - —
31 Phloxine 2G lb. .89 - —
36 Yellow 2G lb. 1.00 - —
40 Orange R extra, conc lb. 1.29 - —
57 Fuchsine 6B lb. 1.31 - —
79 Scarlet 2R lb. .98 - —
151 Orange AD lb. .67 - —
161 Orange RR lb. .80 - —
176 Fast red A lb. 1.18 - —
179 Rubine XX, conc lb. 1.25 - —
180 Blue F4B lb. 1.11 - —
561 Brown B lb. 2.45 - —
581 Black EB, 200% lb. 1.13 - —
185 Brilliant scarlet 3RU, conc. lb. 1.03 - —
202 Chrome blue black R, conc. lb. .91 - —
203 Chrome black T lb. .94 - —
208 Fast blue SR lb. 1.10 - —
216 Chrome red B lb. .92 - —
234 Brown Y lb. 1.08 - —
246 Blue black, extra, conc lb. 1.16 - —
275 Milling red 3R, conc lb. 1.62 - —
289 Navy blue 3R, conc lb. 1.44 - —
299 Black F, conc lb. 1.86 - —
304 Neutral black 2B, conc. lb. 2.43 - —
326 Fast scarlet 4BNC lb. 1.80 - —
332 Bismark brown RX, conc., dustless lb. 1.16 - —
365 Brilliant yellow, conc lb. 3.11 - —
382 Scarlet B lb. 2.20 - —
401 Diazo black BHD lb. .79 - —
406 Blue 2B, extra conc lb. 1.30 - —
419 Red FC lb. 1.23 - —
420 Brown M lb. 1.19 - —
448 Red 4BX, conc lb. 1.43 - —
513 Diamine sky blue FF, extra, conc lb. 1.65 - —
593 Green BY, conc lb. .87 - —

Dyes, coaltar, for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype), contract, divd., No.
596 Yellow Brown K, extra lb. 1.06 - —
620 Yellow 2G lb. 1.11 - —
639 Fast Yellow GG lb. 1.97 - —
640 Yellow XX lb. 1.95 - —
655 Yellow OX lb. 2.24 - —
657 Green V lb. 2.31 - —
662 Brilliant green G lb. 3.07 - —
667 Milling green 6B, conc lb. 4.05 - —
671 Blue EG lb. 1.68 - —
681 Crystal violet powder lb. 2.15 - —
698 Violet 6BN Powder lb. 1.91 - —
720 Brilliant blue BBG lb. 2.07 - —
729 Blue B, conc lb. 3.06 - —
749 Red BX lb. .87 - —
814 Yellow NN, conc lb. 3.11 - —
841 Safranine GF, extra, conc. lb. 3.43 - —
865 Nigrosine J lb. 4.76 - —
922 Blue GXX lb. 1.88 - —
978 Black GXCF, conc lb. .32 - —
1034 Alizarine red SC lb. 2.85 - —
1054 Alizarine blue SAPX lb. 3.20 - —
1078 Alizarine green CG, extra. lb. 2.99 - —
1085 Alizarine blue black B lb. 2.56 - —
1096 Golden orange GFD, single paste lb. 2.19 - —
1099 Dark blue BO, single paste. lb. 1.93 - —
1101 Jade green N, double paste. lb. 1.10 - —
1106 Blue RS, double paste lb. 3.26 - —
1113 Blue BLFD, double paste lb. 2.48 - —
1150 Olive R, single paste lb. 1.21 - —
1151 Brown R, single paste lb. 1.94 - —
1171 Indigo synthetic, 20% paste. lb. .31 - —
1217 Orange RD, double powder. lb. 3.94 - —
p-4 Brown PG lb. 2.54 - —
p-14 Brown EB lb. 1.83 - —
p-24 Gray L lb. 1.76 - —
p-80 Diazo brilliant scarlet ROAD lb. 3.07 - —
p-202 Diazo black VJ, conc lb. 2.10 - —
p-244 Brilliant scarlet BN lb. 1.44 - —

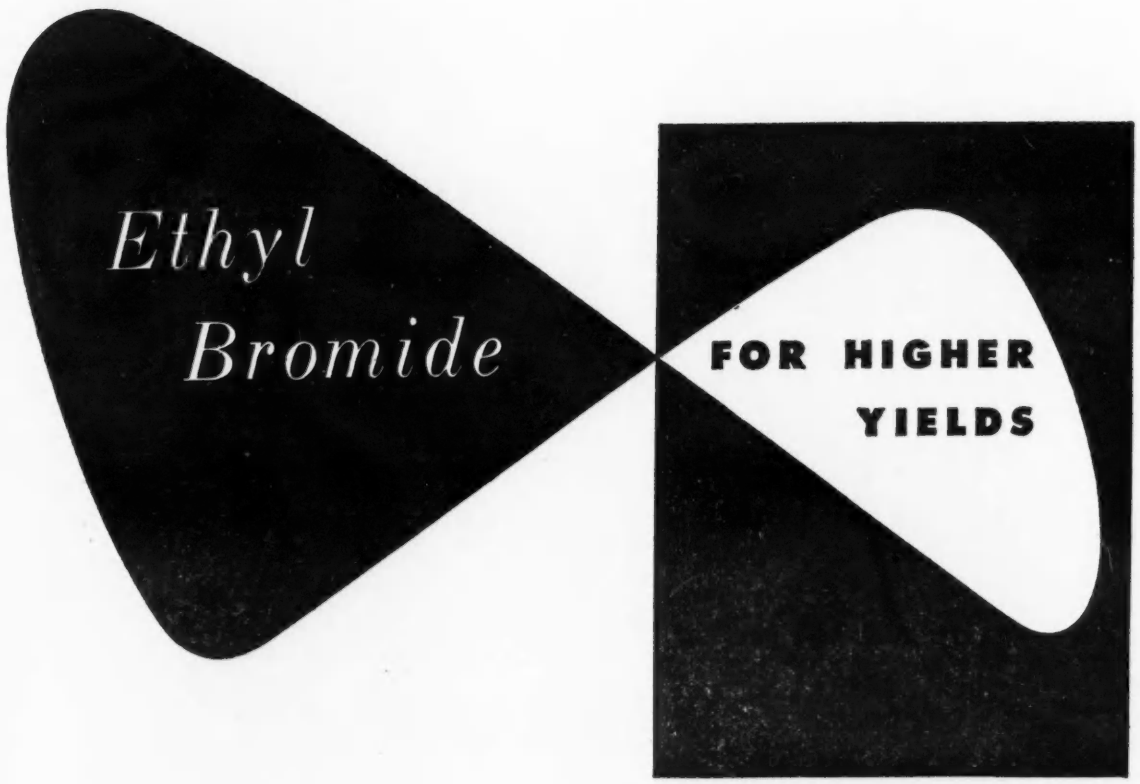
Dyes, coaltar, oil soluble, 100 lb. dms., divd.
24 Oil orange Z-7078 lb. 1.06 - —
73 Oil scarlet ZBL lb. 1.44 - —
800 Chinoline yellow ZSS lb. 2.67 - —
860 Induline base ZM lb. 1.07 - —
860 Induline base Z2R lb. 1.07 - —

Dyes, coaltar, for stains, oil soluble, 100-lb. dms., sellers' works,
1073 Oil violet ZIRS lb. 6.81 - —
1078 Alizarine cyanine green base Z lb. 6.13 - —
1080 Oil violet special Z lb. 6.81 - —
p-813 Naphthol SWF lb. 2.03 - —
Oil black ZBC lb. 4.46 - —
Oil black ZBD lb. 3.03 - —
Oil black ZHH lb. 4.61 - —
Oil black ZMM lb. 6.52 - —
Oil blue ZN lb. 8.02 - —
Oil blue ZV lb. 4.95 - —
Oil orange ZMG lb. 1.32 - —
Oil red Z-1700 lb. 1.49 - —
Oil yellow ZG, conc lb. 6.33 - —

Dyes, coaltar, spirit soluble, 100 lb. dms., divd.
p-517 Spirit yellow ZR lb. 4.62 - —
p-520 Spirit orange ZR, conc lb. 5.87 - —
Spirit black ZRB lb. 2.95 - —
Spirit brown ZG lb. 5.30 - —
Spirit red ZB, conc lb. 6.41 - —

E

Echinacea root, bls lb 1.10 - —
Egg albumin (see Albumin).
Yolk, dried, dom., bbls lb. 1.02 - 1.04
tanners, bbls. lb .06 - .06½
Elm bark, grinding, bls lb. .30 - .32
powd., bbls., bxs lb. .45 - —
select, bundles lb. .75 - —
Emetine hydrochloride, USP, bots oz.42.50 -44.00
Endrin, tech., dms., divd., 100% basis lb. 3.75 - —
Ephedrine, syn., USP, anhyd., bots., 100-oz. lots oz. .98 - 1.00
hydrous, bots., 100-oz. lots oz. .92 - —
Hydrochloride, tins, 100-oz. lots. oz. .75 - —
Sulfate, cryst., tins, 100-oz. lots. oz. .72 - —
powd., tins, 100-oz. lots oz. .73 - —
Epichlorohydrin, dms., c.l., divd lb. .35 - —
l.c.l., divd lb. .36 - —
tanks, divd lb. .33 - —
Epinephrine, syn., USP, bots., 100-gram lots gram .60 - —
Epsom salt (see Magnesium sulfate).
Ergosterol, unirradiated, cryst kilo.150 00 - —
Ergot, NF, dms., tin-lined lb. 2.00 - —
Eserine salicylate, bots oz.84.00 - —
Sulfate, bots oz.84.00 - —
Ether (see specific product).
Ethyl acetate, nat., ferment., 85-88%, dms., c.l., frt. alld lb. .13½- —
l.c.l., frt. alld lb. .14½- —
tanks, frt. alld lb. .11½- —
95-98%, dms., c.l., frt. alld. lb. .13¾- —
l.c.l., frt. alld lb. .14¾- —
tanks, frt. alld lb. .11¾- —
99%, dms., c.l., frt. alld lb. .14 - —
l.c.l., frt. alld lb. .13 - —
tanks, frt alld lb. .12 - —
syn., 85-88%, dms., c.l., divd. lb. .13½- —
l.c.l., divd lb. .14½- —
tanks, divd lb. .11½- —
95-98%, dms., c.l., divd lb. .13¾- —
l.c.l., divd lb. .14¾- —
tanks, divd lb. .11¾- —
99%, dms., c.l., divd lb. .14 - —
l.c.l., divd lb. .15 - —
tanks, divd lb. .12 - —
Acetoacetate, dms., c.l., divd lb. .58 - —
l.c.l., divd lb. .59 - —
tanks, divd lb. .56 - —
Acrylate, dms., c.l., t.l., divd lb. .36- —
t.l., divd lb. .37 - —
tanks, divd lb. .34 - —
Aminobenzoate, USP (see Benzocaine).
Bromide, tech., 98%, dms., c.l., frt. alld. E lb. .41 - .43
l.c.l., frt. alld. E lb. .43 - .45
Butyl ketone, dms, c.l., works lb. .35½- —
l.c.l., works lb. .36 - —
tanks, works lb. .34 - —
Butyrate, works lb .80 - 1.02
Carbamate (see Urethane).
Cellulose, vis. 7 cps., bgs., 5,000-lb. lots or more, works lb. .70 - —
smaller lots, works lb. .72 - .80
vis., 10, 20, 50, 100, 150 cps., bgs., 2,000-lb. lots or more, works lb. .65 - .70
smaller lots, works lb .67 - .81
Chloride, tech., cyl., works .20 - .22
dms., works lb. .18 - .20
tanks, works lb. .10 - —
Cinnamate, cns lb. 2.71 3.45
Ether, absolute, ACS, dms lb. .27 - —
anesthesia, USP, hospitals, 1-lb. cns lb. 1.01 - —
½-lb. cns lb. 1.11 - —
¼-lb. cns lb. 1.21 - —
indust., c.l., divd lb. .12 - —
l.c.l., divd. E lb. .13 - —
tanks, divd. E lb. .10 - —



IT'S THE LOWER COST of the manufactured *quality* product that counts . . . not the cost of the ingredients you use. That's why Michigan Chemical's Ethyl Bromide often is an economical intermediate to employ for the introduction of the ethyl radical. When combined with another intermediate, Ethyl Bromide can result in a higher yield of finished product with overall lower costs and higher production. Try it.

SPECIFICATIONS:

Specific gravity of material at 20°C. compared to that of water at 4°C.	1.450 to 1.465
Distillation range, 5 to 95% within	3°C.
Distillation range to include	38.4°C.
Acidity	Neutral
Color	Water white and clear

Michigan Chemical Corporation, for almost twenty years a quality producer of chemicals, offers a series of pure Bromides, among them being Ethyl Bromide, Monobromobenzene, Cyclopentyl Bromide and Hydrobromic Acid, specially made for use in pharmaceuticals. Write for further information or catalog.

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BASIC MANUFACTURER OF INDUSTRIAL, PHARMACEUTICAL AND AGRICULTURAL CHEMICALS

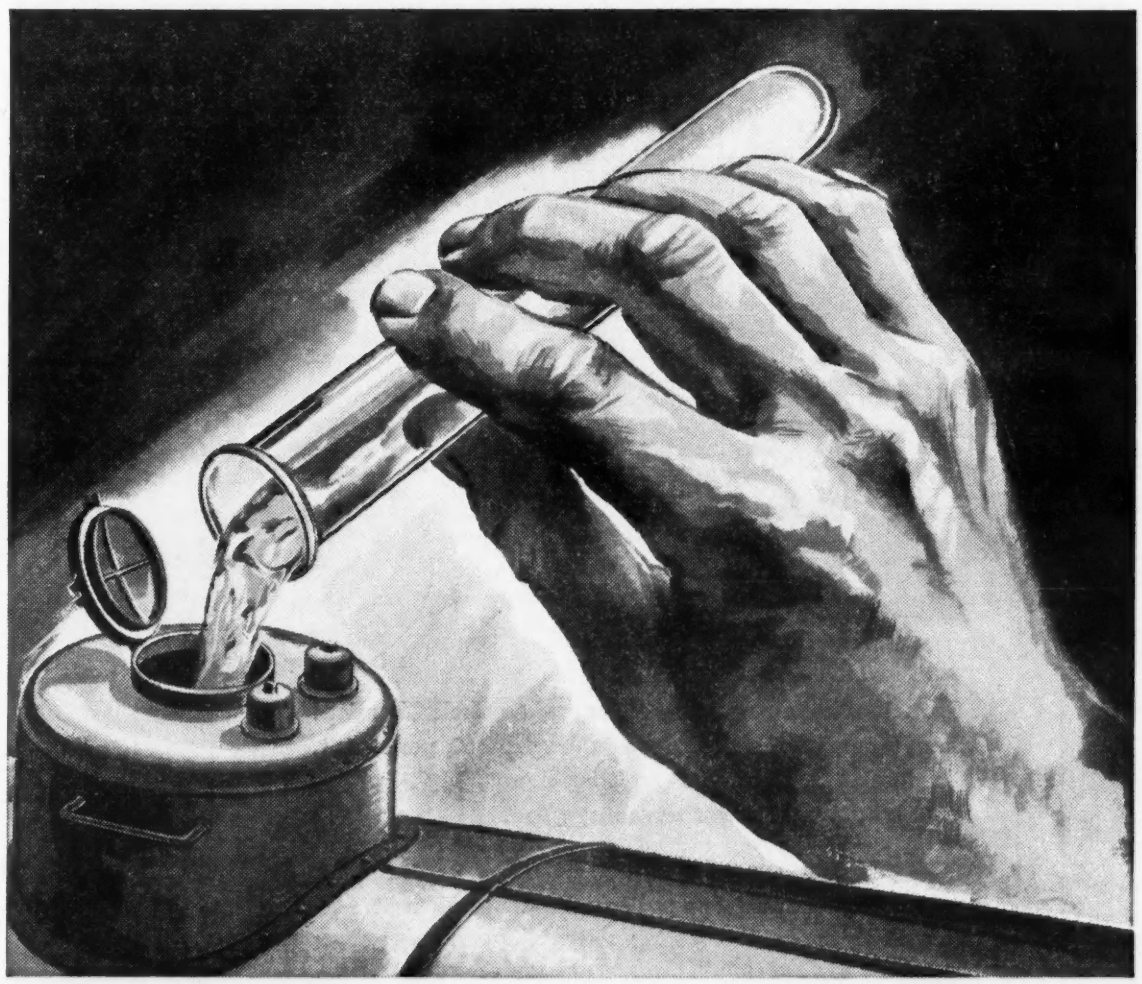
Ethyl gallate, dms., 100 to 2,000-lb. lots ..... lb. 3.90 - 4.40
Iodide, cbys., works ..... lb. 3.30 - —
Methacrylate, dms., c.l. and less than truckload, works, frt. equald ..... lb. .51½- .52
Morphine hydrochloride, USP, bots ..... oz. 11.85 - —
Nitrite (see Nitrous ether).
Oenanthate, dms. ..... lb. 1.00 - 1.50
Oleate, dms., t.c.l., works ..... lb. No prices.
Oxalate (see Diethyl oxalate).
Silicate dist. (see Tetraethyl orthosilicate).
40% available SiO_2, dms., c.l., dlvd ..... lb. .49 - —
t.c.l., dlvd ..... lb. .50 - —
tanks, dlvd ..... lb. .47 - —
Ethylethanolamines, mixed, dms., c.l., dlvd. E ..... lb. .43½- —
t.c.l., dlvd E ..... lb. .44½- —
tanks, dlvd. E ..... lb. .41½- —
N-Ethyl-a-naphthylamine, dms., works, ... lb. 1.02 - —
N-Ethyl-o-toluidide, bbls. ..... lb. .88 - —
Ethylamine (see Mono, Di- or Tri-)
N-Ethylaniline, dms., c.l., frt. alld. ..... lb. .51 - —
t.c.l., frt. alld ..... lb. .52 - —
tanks, frt alld ..... lb. .50 - —
Ethylbenzene, 99%, dms., c.l. ..... lb. .19½- .20¼
t.c.l. ..... lb. .20½- .21¼
tanks ..... lb. .18½- —
Ethylene dichloride, dms. c.l., dlvd. ..... lb. .10¼- —
t.c.l., same basis ..... lb. .12¼- —
tanks, same basis ..... lb. .09 - —
Ethylene dichloride prices W. of Rockies, 1c. per lb. higher.
Glycol, indust., dms. c.l., dlvd. E. ..... lb. .15½- —
t.c.l. same basis ..... lb. .16½- —
tanks, same basis ..... lb. .13½- —
Monobutyl ether, dms., c.l., dlvd. E ..... lb. .21½- —
t.c.l., dlvd. E ..... lb. .22½- —
tanks, dlvd. E ..... lb. .19½- —
Monoethyl ether, dms., c.l., dlvd. E ..... lb. .20½- —
t.c.l., dlvd. E ..... lb. .21½- —
tanks, dlvd. E ..... lb. .18½- —
Acetate, dms., c.l., dlvd. E. ..... lb. .18½- —
t.c.l., dlvd. E ..... lb. .19½- —
tanks, dlvd E ..... lb. .16½- —
Monomethyl ether, dms., c.l., dlvd. E ..... lb. .20½- —
t.c.l., dlvd. E ..... lb. .21½- —
tanks, dlvd. E ..... lb. .18½- —
Acetate, dms., c.l., dlvd. E ..... lb. .28¾- —
t.c.l., dlvd. E ..... lb. .29¼- —
tanks, dlvd E ..... lb. .27 - —
Monostearate, triple pressed, dms ..... lb. .34 - —
Oxide, dms., c.l., dlvd. E ..... lb. .21½- —
t.c.l., dlvd. E ..... lb. .24½- —
tanks, dlvd. E ..... lb. .15½- —
Trichloride (see Trichloroethane).
Ethylenediamine, 85-88%, dms., c.l., dlvd. E., 100% basis ..... lb. .48 - —
t.c.l. dlvd. E., 100% basis ..... lb. .47 - —
tanks, dlvd. E., 100% basis ..... lb. .44 - —
Ethylvanillin, cns., 25-lb. lots ..... lb. 6.75 - 7.30
smaller lots ..... lb 7.35 - 7.40
Eucalyptol, USP, cns., dms. ..... lb 1.40 - 1.50
Eugenol, USP, bots. ..... lb. 2.20 - 3.25
Euphorbia herb, bls. ..... lb. .15 - .17

F

Feldspar, 140-200 mesh, bulk, c.l., works ..... ton. 15.50 - —
Feldspar in bags $3 per ton higher.
Fennel seed, Argentine, bgs ..... lb. .17½- —
Czech, medium, bgs ..... lb. .11½- —
Indian, light, bgs ..... lb. .11 - .11½
Roumanian, bgs. ..... lb. .11 - —
Fenugreek seed, Indian, bgs ..... lb. .08½- .09
Moroccan, bgs. ..... lb. .08½- .09
Ferric acetate, liquor, 28°, bbls., c.l., works ..... lb. .09 - —
t.c.l., works ..... lb. .09¾- —
soln., USP IX, cbys ..... lb. .16 - —
dms. ..... lb. .17 - —
Cacodylate, NF, bots ..... lb. 13.00 - 14.00
Chloride, anhyd., tech., dms., c.l., works ..... 100 lbs. 7.00 - —
t.c.l., works ..... 100 lbs. 7.85 - —
Indust. cryst., bbls. c.l., works. ..... 100 lbs. 5.25 - 6.75
t.c.l., works ..... 100 lbs. 5.75 - 7.25
42° Be, photo grade, cbys., c.l., works ..... 100 lbs. 7.25 - 8.25
sewage grade, tanks, frt. equald, 100% basis. ..... 100 lbs. 3.50 - —
USP cryst. dms., works ..... lb. 07½- .09
Citrate, gran., dms. ..... lb. .86 - —
Hypophosphite, NF, dms ..... lb. 3.45 - —
Naphthenate, liq., 6% Fe., dms., frt. alld ..... lb. .25¾- —
Oxalate, gran., dms ..... lb. .85 - .87
Phosphate, NF, soluble, gran., pearls, cs ..... lb. .64 - .65
Pyrophosphate, NF VII, soluble, gran., pearls, dms ..... lb. .78 - .81
Resinate, 6¾% Fe, dms., frt. alld ..... lb. .29½- —
Stearate, dms., c.l., frt. alld ..... lb. .37 - —
t.c.l., frt. alld ..... lb. .38 - .43
Sulfate, partially hydrated, bgs., c.l., works ..... ton. 31.75 - 33.75
t.c.l., works ..... ton. 34.75 - 40.75
lb. .37 - —
Ferric-ammonium citrate, brown, NF, gran., dms ..... lb. .60 - .63
green, USP XII, gran., dms ..... lb. .60 - .63
Oxalate, fine gran., dms ..... lb. .25½- .28⅛
Ferric-potassium oxalate, fine gran., dms ..... lb. .30½- .33⅛
Ferric-sodium oxalate, fine gran., dms ..... lb. .25½- .28⅛
Ferrous gluconate, NF, dms ..... lb. .94 - —
Sulfate, gran., bgs., c.l., works. ..... ton. 34.50 - —
t.c.l., dlvd. Metropolitan area ..... 100 lbs. 3.35 - 4.25
bbls., c.l., works ..... ton. 40.00 - —
bulk, c.l., works ..... ton. 27.00 - —
USP, cryst., bbls., dms ..... lb. .09½- .10
Fir, balsam, Canada, cns ..... gal. 32.00 - —
Oregon, bbls. ..... gal. 4.00 - —
Fishliver oil (see Oil fishliver).
Fishmeal, dom., menhaden, 60% protein grd., bgs., Chesapeake Bay area ..... ton. 141.00 - —
Scrap ..... ton. 137.00 - —
Fleaseed (see Psyllium seed).
Formaldehyde, USP, 37% (inhibited), methanol, Zone 1, dms., c.l., dlvd ..... lb. .0675- —
t.c.l., works ..... lb. .072 - .0725
tanks, dlvd ..... lb. .04 - —
Zone 2, 12-15%, methanol, dms., c.l., dlvd ..... lb. .071 - —
tanks, dlvd ..... lb. .043 - —
Methanol-free (uninhibited), Zone 1, tanks, dlvd ..... lb. .0375- —
Zone 2, tanks, dlvd ..... lb. .04 - —
Fringetree bark, bls ..... lb. .60 - .61
Fullers' earth, bgs., c.l., Ill. mines, ... ton. 19.00 - —
powd., insecticide grade, dried, bgs., c.l., Ga. or Fla. mines ..... ton. 17.50 - —
calcined, bgs., c.l., same basis ..... ton. 20.00 - 21.75
Fullers' earth, oil-bleaching grade, 100-mesh, bgs., c.l., same basis. ..... ton. 16.30 - 17.00
200-mesh, bgs., c.l., same basis ..... ton. 17.50 - 18.00
spent, bgs., c.l., shipg. point ..... ton. 4.50 - 5.00
Furfural, dms., c.l., works ..... lb. .13 - —
t.c.l., works ..... lb. .14 - —
tanks, dlvd. E ..... lb. .12 - —
dlvd. W ..... lb. .13 - —
Fusel oil, refd., dms., c.l., dlvd. ..... lb. .22 - —
t.c.l., dlvd. ..... lb. .23 - —
tanks, dlvd. ..... lb. .20 - —
Fustic extract, cryst., No. 1, bbls., t.c.l. ..... lb. .47½- —
No. 2, bbls., t.c.l ..... lb. .45½- —
No. 3, bbls., t.c.l ..... lb. .43½- —
liq., No. 1, bbls., t.c.l. ..... lb. .22½- —
No. 2, bbls., t.c.l ..... lb. 21½- —
No. 3, bbls., t.c.l ..... lb. .19 - —
solid, No. 1, bxs., t.c.l ..... lb. .45 - —

G

G salt, bbls., frt. alld, 100% basis ..... lb. .73 - —
Gammapicoline (see g-Picoline)
Gelatin, edible, pure (pork skin), 75 Bloom test, bbls., c.l ..... lb. .48 - —
150 Bloom test, bbl., c.l ..... lb. .59 - —
200 Bloom test, bbl., c.l ..... lb. .66 - —
225 Bloom test, bbl., c.l ..... lb. .70 - —
275 Bloom test, bbl., c.l ..... lb. .77 - —
Gelsemium root, bls ..... lb. .23 - .24
Gentian root, bls ..... lb. .17 - .20
grd., bbls., bxs ..... lb. .22 - .23
powd. bbls. bxs ..... lb. .23 - 24
Geraniol, extra, cns., dms ..... lb. 4.35 - 4.80
standard, cns., dms. ..... lb. 4.20 - —
Geranyl acetate, cns ..... lb. 4.50 - 4.80
Ginger oleoresin, NF, from African root, bots ..... lb 4.00 - 7.75
from Jamaican root, bots ..... lb 6.00 - 10.25
Root, African, bls ..... lb. .33 - .34
Cochin, bgs. ..... lb. .32 - —
Jamaican, No. 2, bgs ..... lb. .61 - —
No. 3, bgs ..... lb. .54 - —
Nigerian, split, bgs ..... lb. .29 - —
Glauber's salt, anhyd (see Sodium sulfate).
Glue, bone, extracted, 86 jellygrams, bgs., c.l., dlvd ..... lb. .15 - —
104 jellygrams, same basis ..... lb. .17 - —
131 jellygrams, same basis ..... lb. .18 - —
164 jellygrams, same basis ..... lb. .20½- —
191 jellygrams, same basis ..... lb. .21 - —
222 jellygrams, same basis ..... lb. .22 - —
packers 40 jellygrams, bgs., c.l., dlvd ..... lb. .14 - —
65 jellygrams, same basis ..... lb. .14½- —
86 jellygrams, same basis ..... lb. .15 - —
115 jellygrams, same basis ..... lb. .15½- —
135 jellygrams, same basis ..... lb. .18½- —
164 jellygrams, same basis ..... lb. .19½- —
renderers' 115 jelly-grams, bgs., c.l., dlvd ..... lb. .15 - —
Bone glue, t.c.l., prices 1c. higher.
Hide, 70-94 jellygrams, bgs., c.l., dlvd ..... lb. .15 - —
95-121, bgs., c.l., dlvd ..... lb. .16 - —
122-149, bgs., c.l., dlvd ..... lb. .18½- —
150-177, bgs., c.l., dlvd ..... lb. .21 - —
178-206, bgs., c.l., dlvd ..... lb. .23½- —
178-206 bgs., c.l., dlvd ..... lb. .23½- —
207-236, bgs., c.l., dlvd ..... lb. .26 - —
237-266, bgs., c.l., dlvd ..... lb. .28 - —
267-298, bgs., c.l., dlvd ..... lb. .30 - —
Glue, hide, 299-330, bgs., c.l., dlvd. ..... lb. .32 - —
331-362, bgs., c.l., dlvd ..... lb. .34 - —
363-394, bgs., c.l., dlvd ..... lb. .36 - —
395-427, bgs., c.l., dlvd ..... lb. .38 - —
428-460, bgs., c.l., dlvd ..... lb. .39 - —
461-494, bgs., c.l., dlvd ..... lb. .40 - —
495-529, bgs., c.l., dlvd ..... lb. .41 - —
Hide glue t.c.l. prices 1c higher.
Glycerine, nat., crude, saponification, 88%, to refineries, tanks. ..... lb. .21 - —
soaplye, 80%, tanks ..... lb. .19 - —
refd., BP, 98%, dms., c.l., dlvd. ..... lb. .31½- —
t.c.l., dlvd ..... lb. .32 - —
tanks, dlvd ..... lb. .30 - —
dynamite, dms., c.l., dlvd ..... lb. .31½- —
t.c.l., dlvd ..... lb. .32 - —
tanks, dlvd ..... lb. .30 - —
high gravity, dms., c.l., dlvd. ..... lb. .31½- —
t.c.l., dlvd ..... lb. .32 - —
tanks, dlvd ..... lb. .30 - —
USP, CP, 95% dms., c.l., dlvd. ..... lb. .30½- —
t.c.l., dlvd ..... lb. .31 - —
tanks, dlvd ..... lb. .29 - —
yellow, dist., dms., c.l., dlvd. ..... lb. .31 - —
t.c.l., dlvd ..... lb. .31½- —
syn., dms., c.l., dlvd ..... lb. .31½- —
t.c.l., dlvd ..... lb. .32 - —
tanks, dlvd ..... lb. .30 - —
Glycine (see Acid aminoacetic).
Glycerol (see Gylcerine).



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DESCRIPTIVE DATA

Distillation Range @ 760 mm, °C	Within 6° spread Including 94.9
Color APHA, max.	30
Aldehydes as acetaldehyde, % wt., max.	0.05
Water, % wt., max.	0.25
Specific Gravity @ 20°/20°C	0.9160-0.9185

CHEMICAL PROGRESS WEEK APRIL 23-28

Celanese* CHEMICALS

*Reg. U. S. Pat. Off.

Glyoxal—Isobutyl Acetate

Glyoxal, 30%, dms., c.l., works lb. .18½ - —
l.c.l., works lb. .19 - —
tanks, works lb. .18 - —
Golden seal root, NF, tested, bls. lb 2.25 - 2.50
powd., bxs lb. 2.75 - 3.25
Graphite amorph., powd., bgs., fib. dms., ex whse lb. .06 - .09½
crystalline, 88-90%, powd., bgs., fib dms., ex whse lb. .19 - .21½
90-92% powd., bgs., fib dms., ex whse lb. .21 - .24½
95-97%, powd., bgs., fib. dms., ex whse lb. .29 - .31½
flake, No. 1, 90-95%, bgs., fib. dms., ex whse lb. .29 - .31
No. 2 90-95% bgs., fib dms., ex whse lb. .29 .31
Grease white choice, all hog, tanks, dlvd lb. .07½ - —
not all hog, tanks, dlvd lb. .07¼ - —
yellow, tanks, dlvd lb. .07 - .07½
Green, brilliant, thioflavin, toner, molybdated, PMA, kgs., works lb 5.10 - —
tungstated, PMA, kgs., works. lb. 6.40 - —
Chrome, CP, dark, light, medium, blue content 1 to 15%, bbls., dlvd. N. of Tenn. and N. C., E. of Miss., including St. Paul, Minn., Davenport, Rock Island, St. Louis lb. .40 - —
16-30%, bbls., same basis lb. .40 - —
31-45%, bbls., same basis. lb. .41 - —

Green, chrome, CP, dark, light, medium, blue content 45-49%, bbls., dlvd. N. of Tenn. and N.C., E. of Miss.; including St. Paul, Minn., Davenport, Rock Island, St. Louis lb. .44 - —
reduced color, 25%, bbls., same basis lb. .19 - —

Chrome green prices are 1c. higher, dlvd., at the following points, except as noted:—Ala., Fla., Ga., La. (Shreveport 1½c.), Miss., N. C., S. C., Tenn., Texas (Dallas, Ft. Worth, 1½c.; El Paso, 2c.); Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1c. higher dlvd Pac coast; for Denver Pueblo, Salt Lake City, Wichita, prices are equalized with Chicago.

Chromium oxide, hydrated, dms., bbls., c.l., frt. alld lb. 1.00 - 1.10
pure, bgs., c.l., frt. alld lb. .42 - —
l.c.l. same basis lb. .43 - —
Dyes (see Dyes, coaltar).
Machalite, straight, PTMA, bbls., works lb. 4.60 - —
Paris (see Paris green).
Phthalocyanine toner, bbls., works. lb. 3.95 - —
resinated, bbls lb. 3.50 - —
water dispersable, bbls lb 1.71 - —
Pigment B kegs lb. 1.35 - —
paste, kegs lb. .38 - —
Grindelia robusta herb, bls lb. .38 .40
Guaiacol, NF, cryst., dms., tins lb 2.10 2.15
liq., cbys., dms lb 2.30 2.40
Carbonate, NF VII, dms lb 3.40 3.45

Gum, aloe (see Aloe).
Arabic, amber, sorts, bgs lb. .22 - .23
powd., USP, bbls lb. .27 - .28
Asafetida (see A).
Asphaltum (see A).
Benzoin, Sumatra, cs lb. .38 - .42
Camphor (see C).
Cellulose, high vis., bgs., 23,000-lb. lots or more, works, frt. alld lb. .55 - —
smaller lots, same basis lb. .57 - —
Copal, Congo, No. 1, bgs lb. .23 - —
No. 2, bgs lb. .18½ .20
No. 3, bgs lb. .16½ - .18
Manila C, bgs lb. .41 - .43
CBB, bgs lb. .37 Nom.
DBB, bgs lb. .31 - .33
DK, bgs. lb. No stocks.
dust, bgs lb. .14 - .16
MA, soft, bgs lb. .23 - .25
WS, bgs lb. .34 - .36
Philippine, pale, chips, bgs lb. .24 - .26
bgs lb. .24 - .26
nubs, bgs lb. .34 - .36
seeds, bgs lb. .20 - .22
sorts, bgs lb. .22 - —
Pontianak, chips, bgs lb. .28 - —
nubs bgs lb. .39 - .40
Dammar, Batavia, A E, cs lb. .27 - .29
dust, bgs lb. .16½ - .17½
E, bgs lb. .20 - .22
East India, batu, bold, bgs lb. .14 - .15½
nubs and chips, bgs lb. .08 - .09
black, bold, bgs lb. .14 - .16
unscraped, bgs lb. .11 - .13
nubs and chips, bgs lb. .11 - .13
pale, chips, bgs lb. .14½ - .15½
nubs, bgs lb. .18 - .19
Siam, cs lb. .39 - —
Singapore, No. 1, bgs lb. .47 - .49
No. 2, bbls lb. .29 - .30
No. 3, bbls lb. No stocks.
dust, bgs lb. .16½ - .17
seeds, bgs lb. .20 - .22

Gum, ester, gum-rosin type, dms., c.l., dlvd, Ill., Md., Ky., Mich., Mid-Atl. States, N. E. States, Minneapolis, N. C., Ohio, St. Louis, St. Paul, Va., W. Va lb. .14½ - .16
Wood-rosin type, dms., c.l., same basis lb. .15 - .16
Guar, food grade, bgs., c.l lb. .40 - —
tech. grade, bgs., c.l lb. .32 - —
Karaya, No. 1, NF, powd., bbls. lb. .55 - —
No. 2, powd., bbls. lb. .45 - —
No. 3, powd., bbls lb. .40 - —
Locust bean, powd., bgs lb. .28 - .30
Myrrh, cs. lb. .38 - .40
Opium (see Opium).
Olibanum siftings, cs lb. .15 - .20
tears, cs. lb 22 30
Rosin (see Naval Stores, Protective Coatings Market).
Sterculia (see Gum Karaya).
Tragacanth, No. 1, ribbons, cs. lb. 3.00 - 3.50
No. 2, cs lb 2.55 - 2.60
No. 3, cs lb 1.75 - 1.80
powd. USP, bbls lb. 1.25 - 1.35
Gypsum, plaster of paris, 100-lb. paper, bgs, trucks, dlvd N Y C ton 20.30 - —
Terra alba, dom., paper bgs., same basis ton.20.00 - —
works, N. Y. C ton.17.00 - —
imp English, 100-lb. paper bags, ex dock, N. Y. C ton 55.00 - —
ex warehouse ton.60.00 - 62.00

H

Hawthorn berries, bgs lb. .24 - .28
Heliotropin, cryst., cns lb. 4.05 - 4.50
Hellebore root, dom., green, bls lb. 70 - 75
Helonias root, bls lb. 1.75 - 2.00
Hematine extract, cryst., No. 1, bbls., l.c.l lb. .47 - —
No. 2, bbls., l.c.l lb. .43 - —
No. 3, bbls., l.c.l lb. .41 - —
No. 4, bbls., l.c.l lb. .39 - —
No 5, bbls., l.c.l lb. .37 - —
paste, No. 1, bbls., l.c.l lb. .20½ - —
Henbane leaves, bls lb. .35 - .40
Heptane, indust., tanks, Bayonne, N. J gal. .19 - —
Baytown, Tex gal. .14¾ - —
Borger, Tex gal. .14¾ - —
Hesperidin methylphalcone, bots., works, 50-lb. lots lb.22.50 - —
5-lb. lots lb.23.00 - —
1-lb. lots lb.23.50 - —
Hexachlorophene, dms lb. 1.98 - —
Hexalin (see Cyclohexanol).
Hexamethylenetetramine, tech., bgs., 20,000-lb. lots or more, Perth Amboy or N.Y.C. lb. .222 - —
1,000-19,999-lb. lots, same basis lb. .232 - —
smaller lots, same basis lb. .242 - —
fib. dms., 1,000-lb. lots or more, same basis lb. .239 - —
smaller lots, same basis lb. .249 - —
USP, dms., 500-lb. lots or more, same basis lb. .40½ - —
smaller lots, same basis lb. .41½ - —
Hexane, indust., tanks, Bayonne, N. J gal. .19 - —
Baytown, Tex gal. .15½ - —
Borger, Tex gal. .15½ - —
l-Hexanol, dms., c.l., works lb. .34½ - —
l.c.l., works lb. .35 - —
tanks, works lb .33 - —
Hexyl cinnamic aldehyde, dms lb. 4.00 - 7.50
Salicylate, dms lb. 1.75 - —
Hexylene glycol, dms., c.l., dlvd lb. .16 - —
l.c.l., dlvd lb. .17 - —
tanks, dlvd lb. .14 - —
n-Hexyl methacrylate, dms., less than truckload, works lb. .71 - —
Hexylresorcinol, USP, dms., 50-lb. lots or more, dlvd lb.14.00 - —
smaller lots, dlvd lb.14.50 - —
Histamine diphosphate, USP, bots. kilo 400.00 - —
l-Histidine hydrochloride, NF, fib. dms., 50-kilo lots, works. kilo 80.00 - 85.00
1-5 kilo lots, works kilo 90.00 - 95.00
Homatropine hydrobromide, USP bots oz. 8.50 - —
Methylbromide, USP, bots oz. 5.65 - —
Hoofmeal, 17-18% ammonia, bulk, c.l., Chicago unit-ton. 6.25 - —
Horehound herb, bls lb 16 - 19
Hydrastine, bots oz.29.50 - 31.00
Hydrochloride, NF, bots oz.29.50 - 31.00
Hydrastis (see Goldenseal).
Hydrazine, free base, ret. dms., Lake Charles, La lb. 3.00 - 3.30
85%, ret. dms., same basis lb. 1.35 - 1.55
Hydrate, 100%, ret. dms., Lake Charles, La lb. 1.60 - 1.80
Hydrocortisone acetate, bulk, bots., dms. gram. 4.75 - 5.00
Alcohol, bulk, bots., dms. gram. 4.75 - 5.00
Hydrofuramide, dms., fib. ctns., works lb. .30 - .40
Hydrogen chloride, anhyd., 50-lb. cyls., c.l., works lb. .45 - —
l.c.l., works lb. .55 - .60
Fluoride anhyd., cyls., dlvd. E lb. .30½ - .32½
dlvd. W lb. .39 - —
tanks, works lb. .21 - —
Peroxide, USP, bbls., dlvd lb. .03¾ - .05
35%, dms., c.l., dlvd lb. .202 - —
l.c.l., dlvd lb. .211 - —
tanks, dlvd lb. .1800 - —
Hydroquinone, photo grade, bbls., dms lb. .98 - 1.00
tech., dms., c.l., dlvd lb. .82½ - —
l.c.l., same basis lb. .84½ - —
Hydroxycitronellal, cns lb. 7.65 - 7.90
Hyoscine salts (see Scopolamine).
Hyoscyamine, bots oz.13.50 - —
Hydrobromide, bots oz. 6.00 - 7.00
Sulfate, bots oz. 7.00 - 7.50
Hypernic extract, cryst., No. 2, bbls., l.c.l lb. .52 - —
liq., No. 1, bbls., l.c.l lb. .35 - —
No. 2, bbls., l.c.l lb. .27 - —

I

Ichthammol, NF, jars lb. .75 - 2.57
Indian red (see Red, Indian).
Indigo (see Dyes, coaltar, 1171 Indigo synthetic).
Indole, CP, bots lb.17.00 - 21.00
Inositol, bots., dlvd lb. 5.00 - —
cms., dlvd. lb. 4.50 - 4.75
Insect flowers (see Pyrethrum).
Iodine, crude, kgs lb. 1.42 - —
resub, USP, dms., jars lb. 2.30 - 2.33
Iodochlorohydroxyquinoiin, USP, dms lb. 5.90 - —
Iodoform, NF, dms., kgs lb 4.90 - 5.00
a-Ionone, cns lb. 5.30 - 5.60
b-Ionone, cs lb. 6.00 - 7.70
Methyl (see under M).
Ipecac root, bgs lb. 8.00 - —
powd., bbls., bxs lb. 9.00 - —
Irish moss, bleached, prime, bls lb. .28 - .34
Iron compounds (see Ferric or Ferrous).
Isoborneol, cns lb. 1.25 - 1.70
Isobornyl acetate, cns lb. .82 - .95
Formate, dms lb. .80 - —
Propionate, dms lb. 1.15 - 1.45
Isobutyl acetate, perfume grade, cns lb. .75 - 1.00
solvent grade, dms., c.l., dlvd. E. of Rockies lb. .13¾ - —
l.c.l., same basis lb. .14¾ - —
tanks, same basis lb. .11¾ - —

Excellent balance of properties makes Shell Chemical hexylene glycol a superior coupling agent, penetrant, humectant, dispersant, wetting agent, high-boiling solvent . . . with a cost advantage, too.

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Isobutyraldehyde, CP, dms., c.l., dlvd. lb. .27½- —
l.c.l., dlvd. lb. .28½- —
tech., dms., c.l., dlvd. lb. .21½- —
l.c.l., dlvd. lb. .22½- —
tanks, dlvd. lb. .19½- —
Isoeugenol, cns. lb. 4.40 - 4.75
Isoniazid, powd., bulk, 25-kilo lots or more kilo. 23.00 - 25.50
smaller lots kilo. 24.00 - 26.00
Isopentane, coml. grade, tanks, f.o.b. Tex. refy gal. .15½- —
Isonicotinic acid hydrazide (see Isoniazid).
Isophorone, dms., c.l., works lb. .24¼- —
l.c.l., works lb. .24¾- —
tanks, works lb .22½- —
Isopropanol (see Alcohol, Isopropyl).
Isopropyl acetate, dms., c.l., dlvd. lb. .12½- —
l.c.l., same basis lb. .13½- —
tanks, same basis lb. .10½- —
Alcohol (see Alcohol, Isopropyl).
Benzene (see Cumene).
Ether, dms., c.l., dlvd. lb. .07 - —
l.c.l., dlvd. lb. .08 - —
tanks, dlvd lb .05 - —
Isopropyl-N-(3-chlorophenyl) carbamate, (CIPC), 70% in xylol, dms., c.l., t.l., works lb. .70 - —
l.c.l., works lb. .714 - .814
Isopropyl-N-phenyl carbamate, 450-lb. fib dms., c.l., t.l., works. lb. .75 - —
l.c.l., works lb. .80 - .90
Isopropylamine (see Mono, Di, or Tri-).
Isoquinoline, dms., works lb. .65 - 1.25

J

Jalap root, NF, bls lb. .43 - .53
powd., bbls., bxs lb. .53 - .65
Juniper berries, bgs lb. .16 - .20
Tar, NF, dms lb. .42 - .60

K

Kaolin (see also Clay China).
NF, powd., fib. dms lb. .10 - .12
colloidal, fib. dms lb. .15½- .17½
Kola nuts, bgs lb. .15 - —

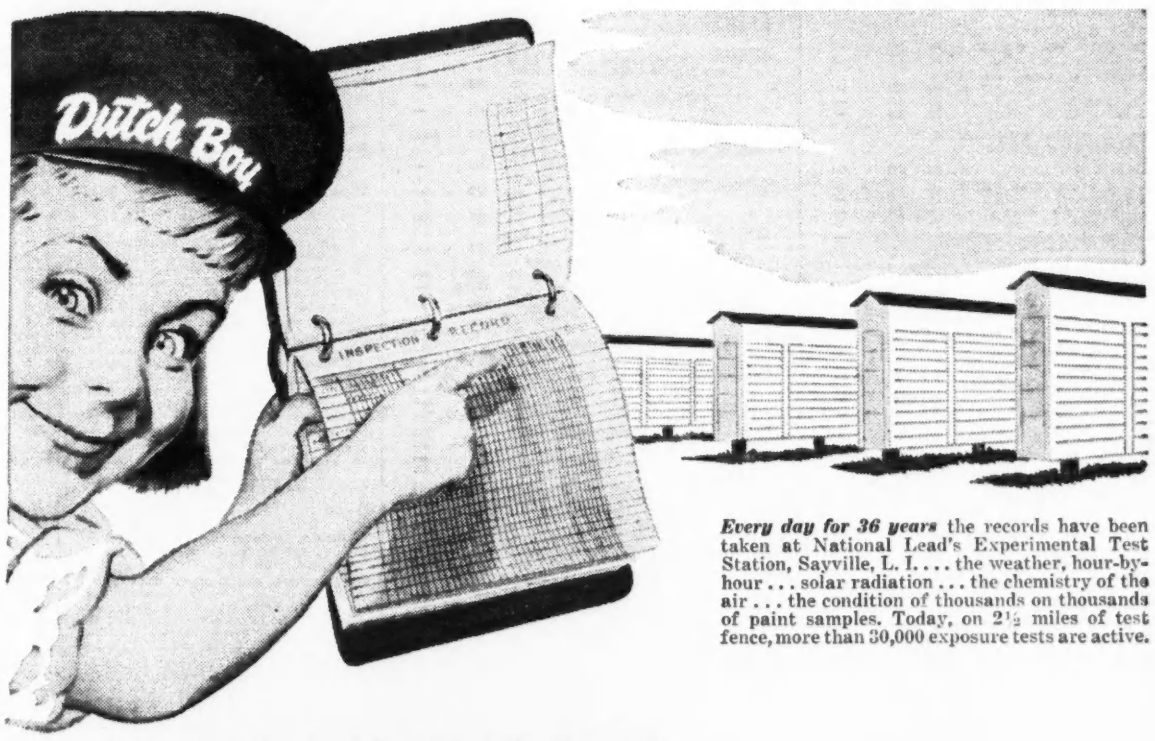
L

Lactose, edible, fib. dms., 30,000-lb. lots, works lb. .19½- —
2,000-lb. lots, works lb. .20¼- —
200-1,800-lb. lots, works lb. .20¾- —
Edible lactose in bgs. 1c. lower.
fermentation grade, bgs., c.l., works lb. .08½- —
USP, fib. dms., 30,000-lb. lots, works lb. .21½- —
2,000-lb. lots, works lb. .22¼- —
200-1,800-lb. lots, works lb. .22¾- —
USP lactose in bgs. 1c. lower.
Lady's slipper root, bls lb. 1.70 - 1.75
Lanolin, cosmetic, dms., works lb. .28 - .30
USP, anhyd., dms., works lb. .26 - .23
hydrous, dms., works lb. .25 - .27
Lard, cash, dms., Chicago lb. .1180- —
ton 56.00 - 56.50
Larkspur seed, bgs lb. .20 - .23
Laurel leaves, Greek, bls lb. .12 - —
Portuguese, bls. lb. .11 - —
Turkey, bls. lb. .25 - —
Yugoslavia, bls. lb. .11 - —
n-Lauryl methacrylate, dms., c.l. or t.l., works lb. .65½- —
Lavender flowers, medium, bls. lb. .75 - .80
ord., bls lb. .25 - .40
select., bls lb. .90 - —
Lead acetate, white, cryst., bbls. lb. .23½- —
gran., bbls lb. .24½- —
powd., bbls lb. .24½- —
NF, cryst., gran., powd. lb. .32½- .33½
Lead arsenate, acid powder, dealers, 5-lb. bgs. or larger, c.l., frt. alld. on 96 lbs. or more lb. .27½- —
l.c.l., frt. alld. lb. .28½- —
1-lb. bgs., c.l. lb. .41½- —
l.c.l. lb. .42½- —
Blue, basic sulfate, bbls., c.l., shipt. point, frt. alld. lb. .17¼- —
l.c.l., same basis lb. .16¼- —
Carbonate (see Lead, white, basic Carbonate).
Chloride, dms. lb. .43 - —
Iodide, NF, V jars lb. 5.02 - —
Linoleate, fused, 28-30% Pb, dms. lb. .33 - —
Metal pigs, prime, N. Y. lb. .16 - —
St. Louis lb. .1580- —
Metallic paste, dms., 20,000-40,000-lb. lots, works lb. .33¾- —
10,000-20,000-lb. lots, same basis lb. .34¾- —
200-2,000-lb. lots, same basis, lb. .35¼- —
Prices ex whse, Jersey City, N. J., 4½c. per lb. higher.
Monosilicate, bgs., c.l., works, frt. equald. lb. .20 - —
l.c.l., same basis lb. .2075- —
Naphthenate, liq., 16% Pb, dms., dlvd lb. .17 - —
24% Pb., dms., dlvd lb. .21 - —
solid, 37% Pb., dms., dlvd. lb. .27½- —
Nitrate, bbls lb. .23¾- —
Orthosilicate-silica gel, 50-60% PbO dms., works lb. .29¾- .34¼
Peroxide, tech., powd., bbls lb. .38¾- .40¼
Phthalate, dibasic, dms., works lb. .41 - —
Red, 95% Pb_3O_4, or less, bbls., c.l., works, frt. alld. lb. .18½- —
l.c.l., same basis lb. .19 - —
97% Pb_3O_4, bbls., c.l., same basis, lb. .18¾- —
l.c.l., same basis lb. .19¼- —
98% Pb_3O_4, bbls., c.l., same basis, lb. .19 - —
l.c.l., same basis lb. .19½- —
Resinate, precip., 23% Pb, dms., dlvd lb. .32½- —
Salicylate, normal, dms., works, lb. .46 - —
Silicate (see Lead, white, basic, silicate)
Sulfate (see Lead, blue, basic sulfate, Lead white, basic sulfate).
Tallate, liq., 16% Pb, dms. lb. .13 - —
24% Pb., dms lb. .18½- —
solid, 30% lb. .23¼- —
White, basic, carbonate, bgs., c.l., shipt. point, frt. alld. lb. .19 - —
l.c.l., same basis lb. .20 - —
silicate, bgs., c.l., shipt. point, frt. alld. lb. .17¼- —
l.c.l., same basis lb. .18¼- —
sulfate, bgs., c.l., shipt. point, frt. alld. lb. .17¼- —
l.c.l., same basis lb. .18¼- —
Lecithin, edible, tech., bleached, non-ret. dms., c.l., works lb. .15 - .17
l.c.l., same basis lb. .15½- .17½
unbleached, non-ret. dms., c.l., same basis lb. .13 - .15
l.c.l. same basis lb. .14½- .16½
dl-Leucine dms. works lb. 12.25 - 15.00
Licorice root whole, bbls. lb. .10 - .12
gran., bbls lb. .15 - .17
powd., bbls lb. .12 - .15
Lignosulfonate, 70% tannin, bgs., c.l., works lb. .06½- —
l.c.l., works lb. .06¾- —

Lime, chemical (quicklime), bulk, c.l., metropolitan, N. Y. destination, freight equalized with nearest producing point ton. 18.71 - —
Hydrated, bulk, c.l., same basis. ton. 20.21 - —
Spray, bgs., c.l., same basis ton. 23.21 - —
Lime salts (see Calcium).
Lime-ammonium nitrogen 20.5% N (see Ammonium nitrate with dolomite).
Limestone, grd., bgs., works ton. 3.50 - 4.00
Linalool, ex bois de rose oil, dms. lb. 5.45 - 6.85
ex lignaloe wood oil, dms lb. 5.30 - 7.10
Linalyl acetate, ex bois de rose, 90-92%, dms. lb. 5.50 - 5.80
96-98%, dms lb. 6.75 - 7.15
ex petitgrain, bots. lb. 5.95 - 6.70
Lindane, 25% formulation, dealers, dms., frt. alld. lb. 1.00 - 1.09
99%, tech., formulators, dms., frt. alld. lb. 2.65 - 3.23
Linden flowers with leaves, bls lb. .30 - —
without leaves, bls lb. .35 - —
Linseed meal, expeller, 32-34% bulk, Midwest, mills ton. 37.00 - —
extracted, 36% bulk, same basis. ton. 49.00 - —
Litharge, coml., powd., bbls., c.l., works, frt. equald. lb. .17½- —
l.c.l., same basis lb. .18 - —
Lithium benzoate, dms lb. 1.65 - 1.67
Bromide, NF, dms., works, frt. equald lb. 2.30 - —
Carbonate, NF, dms., c.l., t.l., dlvd lb. 1.29½- —
ton lots to t.l., dlvd lb. 1.30 - —
tech., dms., c.l., t.l., dlvd., frt. alld., works lb. .82 - 1.10¼
l.c.l., same basis lb. .85 - 1.11½
Chloride, CP, anhyd., ton lots lb. 1.28¼- —
tech., anhyd., dms., c.l., t.l., dlvd., or works, frt. alld. lb. 1.00 - 1.05
l.c.l., same basis lb. 1.05 - 1.05½
Citrate, NF, dms lb. 1.60 - 1.64
Fluoride, bbls., 10,000-lb. lots, dlvd lb. 2.17½- —
ton lots, dlvd lb. 2.18½- —
less ton lots, dlvd lb. 2.23½- —
Hydride, powd., dms., 500-lb. lots, works lb. 12.00 - —
Hydroxide, monohydrate, dms., c.l., t.l., dlvd. or works, frt. alld lb. .80 - .80½
l.c.l., same basis lb. .81 - .81½
Manganite, dms., works lb. .95 - 1.15
Nitrate, tech., dms., 100-lb. lots, lb. 1.25 - —
Salicylate, dms lb. 1.60 - 1.70
Silicate, dms., works lb. 1.10 - 1.30
Stearate, dms., c.l., works lb. .47½- —
ton lots, works lb. .48½- —
less-ton lots, works lb. .53½- —
Sulfate, dms., 100-lb. lots lb. 1.45 - —
Titanate dms., works lb. 1.15 - 1.35
Lithopone ord., bgs., c.l., dlvd lb. .07½- —
l.c.l. dlvd lb. .08¼- .08½
titanated (high-strength), bgs., c.l., dlvd lb. .10 - —
l.c.l., dlvd lb. .11 - —
Lithopone prices, Pacific Coast, 1c. per lb. higher.
Lobelia herb, bls lb. 1.50 - —
Lobeline sulfate, bots., works oz. 37.50 - 39.00
Logwood extract, cryst., No. 1, bbls., l.c.l lb. .41 - —
No. 2, bbls., l.c.l lb. .39 - —
liq., No. 1, bbls., l.c.l lb. .20 - —
No. 2, bbls., l.c.l lb. .19 - —
No. 3, bbls., l.c.l lb. .18½- —
solid, No. 1, boxes, c.l. lb. .35 - —
Lycopodium, cs lb. 1.20 - 2.00
dl-Lysine hydrochloride, bots kilo. 140.00 - 150.00

M

Mace, Siauw, siftings, bls. lb. 2.35 - 2.75
West Indian, No. 1, bls. shipment lb. No prices.
Magnesia, calcined, tech., bgs., ctns., works lb. .25¼ - .28
syn. rubber grade, light, bgs., c.l., works lb. .29¼ - —
l.c.l., works lb. .30 - —
extra light, works lb. .29¼ - .30
USP, light, ctns lb. .35 - .36
heavy, bbls lb. .45 - .52
Magnesite, chemical grade, calcined, powd., bgs., c.l., works, frt. equald ton. 82.50 - —
dead-burnt, standard grain, bulk, c.l., Chewelah, Wash ton. 40.00 - —
Magnesium bromide, jars lb. .90 - 1.00
Carbonate, tech., bgs., c.l., frt. equald lb. .10½- —
l.c.l., frt. equald lb. .12 - .13
truckloads, frt. equald lb. .11 - —



Every day for 36 years the records have been taken at National Lead's Experimental Test Station, Sayville, L. I. . . . the weather, hour-by-hour . . . solar radiation . . . the chemistry of the air . . . the condition of thousands on thousands of paint samples. Today, on 2½ miles of test fence, more than 30,000 exposure tests are active.

FOOLPROOF

your exterior paints

with Dutch Boy® "45X"

(Basic Silicate White Lead)

Want an extra leeway of safety against complaints? . . . "Use lead," say makers of exterior paints.

But thousands of exposure panels at Sayville, National Lead's Experimental Station go one step further. They *prove* you need lead for *uniform* performance. Prove, too, that "Dutch Boy" Basic Silicate White Lead "45X" *assures* uniform performance . . . makes exterior paints virtually foolproof, able to handle wide variations in application and service conditions.

In white House Paints, for instance, "45X" insures good self-cleaning. Preserves film integrity, as well.

In tinted House Paints, Dutch Boy "45X" increases film durability and maintains color uniformity.

In Primers, "45X" strengthens adhesion . . . helps keep the bond strong by resisting water.

Paint after paint, it's the same story . . . uniform performance . . . fewer complaints. With "45X," the time and cost of answering complaints goes down. Talk against your paints . . . talk you may not hear . . . fades away. Good will, repeat business comes your way.

Cost is lower, too

You actually need fewer pounds of "45X." For in "45X" the reactive portion of each pigment particle is concentrated at the surface. Pound for pound, *more* lead is available than in other white leads.

No question about it. If you want to cut complaints, step up quality and save money, "Dutch Boy" Basic Silicate White Lead "45X" is the lead to use in exterior paints.

National Lead Company: New York 6; Atlanta; Buffalo 3; Chicago 80; Cincinnati 3; Cleveland 13; Dallas 2; Philadelphia 25; Pittsburgh 12; St. Louis 1; San Francisco 10; Boston 6 (National Lead Co. of Mass.). In Canada: Canadian Titanium Pigments Ltd., 630 Dorchester St., W., Montreal.

Magnesium bromide, USP, bgs., c.l., frt. equald ..... lb. .12½- —
t.l., frt. equald ..... lb. .13 - —
l.c.l. frt equald ..... lb .14 - .15

Above prices are quoted f.o.b. works, freight equalized with metropolitan New York and competitive producing points.

Chloride, anhyd., 92% flake or pebble, dms., c.l., works lb. .12¾- —
l.c.l. same basis lb. 14 - 15
hydrous, 99% flake, bgs., c.l., works ton 50.00 - —
l.c.l., works ton 55.00 - 105.00
Gluconate, dms., cns ..... lb. 1.34 - 1.41
Hydroxide NF, medicinal, bbls., dms., kgs lb. .26½- .30
Metal 99.8% ingots, 10,000 lb. lots or more, works lb. .32½- —
pigs, 10,000-lb lots or more, works lb. .33¼- —
sticks, cs., works frt alld. on carlots lb. .53 - —
Oxide (see Magnesia, calcined)
Peroxide, 15% dms, works lb 1.00 - 1.05
Phosphate, tribasic, NF, bbls lb. .75 - —
Silicate (see Talc).
Silicofluoride, dms., works lb. .10 - .11½
Sulfate, tech., bgs., c.l., works 100 lbs. 2.15 - —
l.c.l., works ..... 100 lbs. 2.90 - 3.15
USP, cryst., bgs., c.l., works. 100 lbs. 2.35 - —
l.c.l., 5,000 lbs., 1 withdrawal 100 lbs. 3.10 - —
smaller lots ..... 100 lbs. 3.35 - —
Trisilicate, USP, dms., 5,000-lb. lots lb. .38 - —
1,000-lb. lots ..... lb. .40 - —
100-lb. lots ..... lb. .45 - —

Bulky and super grades of magnesium trisilicate, 7c. per lb. higher

Malathion, dms., c.l., works .... lb. .90 - —
l.c.l., works ..... lb. .92 - 1.02
Maleic anhydride, dms., c.l., dlvd. E lb. .27 - —
l.c.l., dlvd E ..... lb. .28 - —
tanks, dlvd E ..... lb. .26 - —

Prices on maleic anhydride W. of Rockies, 1½c. higher.

Mandrake root, bls ..... lb. .55 - .60
Manganese acetate, bbls., dlvd lb. .35 - —
Arsenate, bgs ..... lb. .16 - —
Borate, tech., fib, dms ..... lb. .25 - —
Carbonate bbls., works ..... lb. .22 - —
Chloride anhyd., dms., works lb. .25½- —
Dioxide, African 84-87%, 40,000 to 99,999-lb. lots, burlap paper lined, bgs., gross for net, works ton 97.00 - —
paper bgs., works ... ton 93.50 - —
dms., works ..... ton 101.50 - —

Prices for manganese dioxide in 10,000 to 40,000-lb. lots $3 per ton higher.

Gluconate, dms. ..... lb. 1.80 - 1.94
Hydrate, bbls., dlvd ..... lb .36 - —
Hypophosphite, NF, dms ..... lb. 3.52 - —
Linoleate, liq., 4.35% Mn., dms. lb. .32½- —
solid, precip, 8.2% Mn, bbls lb. .37½- —
Naphthenate liq, 6% Mn., dms., frt alld lb. .27 - —
Resinate, fused, 3½% Mn, dms. lb. .24 - —
precip 6½-7% Mn, dms lb. .28 - —
Sulfate, fertilizer grade, 65%, bgs., c.l., dlvd, S. E ... ton 80.50 - —
l.c.l. dlvd, S. E ... ton 87.50 - —
Tallate 6%, dms ..... lb. .24 - —
Mangrove bark, E. African, 38% tannin, c.l., ex dock ton 71.00 - —
So. American 30% tannin, c.l., tannin, c.l., ex dock ton 55.00 - 58.00
Menthol, nat., USP, Brazilian, cs lb. 6.85 - 7.00
works lb. .60 - —
single dm., works ..... lb. .65 - —
ton-lots, works ..... lb. .62 - —
MBT (see 2-Mercaptobenzothiazole).
MBTS (see Mercaptobenzothiazyl disulfide).
Melamine, bgs., ton lots, works lb. .33 - —
500 to 2,000-lb lots, works lb. .33½- —
smaller lots, works ..... lb. .38½- —
Menadione, USP, bots. gram .044 - .05
Menthol, nat., USP, Brazilian, cs lb. 6.85 - 7.00
syn. USP, racemic, cns ..... lb. 4.95 - —
Menthyl salicylate, tins lb 4.00 - 4.25
2-Mercaptobenzothiazole, bgs., fib. dms., ton-lots, works, frt. alld lb. .40 - —
less ton lots, same basis lb. .42 - —
Mercaptobenzothiazyl disulfide, bgs., fib dms., ton-lots, works, frt. alld lb. .50 - —
less ton lots, same basis lb. 52 - —
Mercuric chloride, NF, cryst., dms., 50-lb lots or more lb. 4.98 - —
gran., or powd., dms., 50-lb. lots or more lb. 4.78 - —
Cyanide NF VIII, powd. fib. dms. lb 6.84 - —
Iodide, red, NF, fib. dms .... lb. 7.72 - —
Oxide, red, NF, powd. fib. dms. lb. 5.90 - 6.01
yellow, tech. (see Yellow mercury oxide).
USP fib dms ..... lb 6.14 - —
Mercurous chloride (see Calomel).
Iodide, yellow, NF ..... lb 7.72 - —
Mercury, ammoniated (see White precipitate USP)
Metal, 76 lb. per flask net-flask 266.00 - 269.00
Mesityl oxide, dms., c.l., dlvd lb .1350- —
l.c.l. dlvd ..... lb 1450- —
tanks dlvd ..... lb 1150- —
Meta-aminophenol (see m-Aminophenol).
Metachloroaniline (see m-Chloroaniline).
Metanitroaniline (see m-Nitroaniline).
Metanitroparatoluidine (see m-Nitro-p-toluidine).
Metaphenylenediamine (see m-Phenylenediamine).
Metatoluidine (see m-Toluidine).
Metatolylenediamine (see 2,4-tolylenediamine).
Methanol, nat., denaturing grade, tanks, frt. al'd gal. 75 - —
Prices on natural methanol W. of Miss. 3c. per lb higher.
syn. Zone 1, dms., c.l. dlvd. or truckload min., frt. alld. gal. .45 - —
l.c.l. same basis gal. .51 - —
tankwagon, 2,000-4,000-gal. lots, dlvd, Metropolitan area gal. .33 - —
4,000 gal., min., frt. alld. or dlvd gal. .30 - —
4,000 gal., min., works, Carteret, Camden, N. J gal. .27½- —
Zone 2, dms., c.l., or truckload min. frt. alld. or dlvd gal. .48 - —
l.c.l., same basis gal. .54 - —
tankwagon, 2,000-4,000-gal. lots, min., dlvd, Metropolitan area gal. .36 - —
tanks, 4,000 gal., min., frt. alld. or dlvd gal. .33 - —

Synthetic methanol zones are:—Zone 1 is all continental U. S. E. of eastern boundaries of Ariz., Idaho and Utah. Zone 2 is remainder of U. S. west of above state boundaries comprising Ariz., Calif., Idaho, Nev., Ore., Utah and Wash.

Methenamine (see Hexamethylenetetramine).
dl-Methionine, fib, dms., frt. alld, 50-lb. or more lb. 3.50 - —
feed grade, 98%, fib. dms., same basis lb. 2.65 - —
Methoxychlor 50% wettable powder, dealers, dms., cs., frt. alld lb. .61 - .64
Methyl abietate, non-ret, dms., c.l., dlvd, zone 1 lb. .20½- —
l.c.l., same basis ..... lb. .21 - —
hydrogenated, non-ret, dms., c.l., dlvd, Zone 1 ..... lb. .21 - —
l.c.l., same basis ..... lb. .21½- —

Zone 1 includes New England and Middle Atlantic states, Va., W. Va., N. C., Ohio, Ky., Mich., Ind., Ill., Wis., St. Paul and Minneapolis, Minn.; St. Louis, Mo.; Miss., Ala., Ga., Fla., S. C. and Tenn.

Acetone, nat., dms., l.c.l., E. of Miss., frt. alld gal. .62½- —
syn., dms., c.l., frt. alld, E gal. .57 - —
l.c.l. frt alld E ..... gal. .63 - —
tanks, frt. alld E ..... gal. .45 - —

Synthetic methyl acetone E. territory is all States East of and including Colo., Mont., N. Mex. and Wyo. West territory all states west of those four.

Acrylate, dms., c.l., t.l., dlvd. lb. .39 - —
l.t.l., dlvd ..... lb. .40 - —
tanks, dlvd ..... lb. .37 - —
Alcohol (see Methanol).
Amyl acetate, dms., c.l., dlvd, E. lb. .15½- —
l.c.l., dlvd, E ..... lb. .16½- —
tanks, dlvd, E ..... lb. .13½- —
Ketone, dms., works ..... lb. 1.05 - —
Anthranilate, cns ..... lb. 2.50 - 2.65
Benzoate, cns., dms ..... lb. .53 - .65
Bromide, jobbers, cyls., various sizes, frt. alld, E lb. .47 - .61
Cellulose, special vis., (1,500-4,000 cps.) 50-lb. bgs., c.l., works. lb. .78 - —
2,000-lb lots and more, same basis lb. .65 - —
smaller lots, frt. alld, on 100 lbs lb. .89 - 1.00
standard vis., 15,400 cps.), 50-lb., bgs., c.l., frt. alld lb. .66 - —
2,000-lb. lots and more, same basis lb. .72 - —
smaller lots, frt alld, on 100 lbs lb. .75 - .85
Chloride, indust., cycls., frt. equald. lb. .21 - —
tanks, multi-unit, same basis lb. .15 - —
single unit, same basis lb. .11½- —
refrigerator mfrs., cyls., dlvd lb. .46 - .48
other consumers or service men, cyls., dlvd lb. .67 - —
Chloroform (see 1,1,1-trichloroethane).
Cinnamate, cns ..... lb. 1.43 - 1.80
Cyclohexanol, dms., c.l., works. lb. .35½- —
t.c.l., works ..... lb. .36 - —
tanks, works ..... lb. .34 - —
Ethyl ketone, dms., c.l., dlvd. lb. .13½- —
l.c.l., dlvd ..... lb. .14½- —
tanks, dlvd ..... lb. .11½- —
Formate refd., dms ..... lb. .35 - .40
tech., non-ret. dms., any quantity, works lb. .10 - —
Heptin carbonate, bots ..... lb. 33.00 - 42.00
p-Hydroxybenzoate fib dms lb. 1.90 - 2.00
Ionone, standard, cns., dms. lb. 5.20 - 5.50
Isobutyl carbinol, dms., c.l., dlvd. lb. .15½- —
l.c.l., dlvd ..... lb. .16½- —
tanks, dlvd ..... lb. .13½- —
Ketone, dms., c.l., dlvd ..... lb. .15½- —
l.c.l., dlvd ..... lb. .16½- —
tanks, dlvd ..... lb. .13½- —
Methacrylate, dms., c.l., t.l., frt. equald with Belle, W. Va. lb. .31 - —
smaller lots, same basis .... lb. .31½- —
tanks, same basis ..... lb. .29 - —
Naphthyl ketone, cryst, cns .... lb. 3.60 - 4.30
Parahydroxybenzoate (see Methyl p-Hydroxybenzoate)
Roseaniline chloride, NF, fib. dms., 5-lb. lots ..... lb. 5.64 - —
Salicylate, USP, cns., 500-lb. lots lb. .56 - —
Testosterone, USP, 100-gram bots. gram. .68 - —
2-Methylbenylamine, dms., c.l., works lb. 1.25 - —
2-Methylbenzyl dimethylamine, dms., c.l., works lb. 1.89 - —
t.c.l., works ..... lb. 1.90 - —
2-Methyl-5-ethyl pyridine dms., c.l., works lb. .445 - —
t.c.l., works ..... lb. .45 - —
tanks, works ..... lb. .43 - —
Methylene blue, fib. dms., 100-lb. lots, frt. adjusted lb 3.25 - 3.60
smaller lots same basis lb 3.40 - 3.60
Chloride, tech., dms., c.l., dlvd, E lb. .12½- —
l.c.l., same basis ..... lb. .15 - —
tanks, same basis ..... lb. .11¼- —
b-Methylnaphthalene, 32°C. m.p., dms., works lb. .80 - —
Methylpentanediol (see Hexylene glycol).
Methylphenylpyrazolone (see 1-Phenyl-3-methylpyrazolone-5)
Methylthionine chloride (see Methylene blue).
Mica, dry-grd., paint plastic, 100 mesh, bgs. c.l., works lb. .04¼ —
roofing, 20 to 80 mesh, works lb. .03 - .04
wet-grd., biotite, bgs., c.l., works, frt. alld, E ..... lb. .06¼- —
l.c.l., ex-whse. or frt. alld, E lb. .07 - —
paint or lacq., bgs., c.l., works, frt. alld lb. .07¾- —
l.c.l. ex whse or frt. alld, E lb. .08½- —
rubber, bgs., c.l., works, frt. alld, E lb. .07½- —
l.c.l., ex-whse. or frt. alld, E lb. .08½- —
wallpaper, bgs., c.l., works, frt. alld., E lb. .07¾- —
l.c.l., ex-whse. or frt. alld, E lb. .08¼- —
white, extra, fine, bgs., c.l., works, frt. alld, E lb. .07¾- —
l.c.l. ex whse or frt. alld, E lb .08½ —
Mica, wet-grd. W. of Miss. ½c. higher; W of Rockies 1c higher
Mineral spirits (see Petroleum mineral spirits).
Molasses, blackstrap feed grade, tanks, New Orleans gal. .10¼- .11½
New York gal. .12½- —
Molybdenum (metal), powd., 80 or 200 mesh, ctns., works kilo 8.80 - —
Trioxide, pure dms., works lb. 1.10 - —
tech., dms., works, basis Mo. content ... lb. 1.31 - —
Monobutylamine, dms., c.l., E. of Rockies lb. .55 - —
l.c.l., same basis ..... lb. .56 - —
tanks, same basis ..... lb. .53 - —
Monochlorobenzene, dms., c.l., frt. alld. or dlvd. E lb. .10 - —
l.c.l., same basis ..... lb. .11 - —
tanks, same basis ..... lb. .08½- —
Monoethanolamine, dms., c.l., dlvd. E lb. .27 - —
l.c.l., same basis ..... lb. .28 - —
tanks, same basis ..... lb. .25 - —
Monoethylalphanaphthylamine (see N-Ethyl-a-naphthylamine).
Monoethylamine, 70% contained amine, dms., c.l., dlvd. E lb. .35 - —
l.c.l., dlvd. E ..... lb. .36 - —
tanks, dlvd. E ..... lb. .33 - —
Monoethylaniline (see N-Ethylaniline).
Monoethylorthotoluidin (see N-Ethyl-o-toluidine).
Monoisopropanolamine, dms., c.l., dlvd. E lb. .27 - —
l.c.l., same basis ..... lb. .28 - —
tanks, same basis ..... lb. .25 - —
Monoisopropylamine, dms., c.l., dlvd. lb. .32 - —
l.c.l., same basis ..... lb. .33 - —
tanks, same basis ..... lb. .30 - —
Monomethylamine, 30-35% soln., dms., c.l., frt. equald, 100% basis. lb. .40 - —
l.c.l., frt. equald 100% basis. lb. .40½- —
tanks, frt. equald 100% basis. lb. .31 - —
40% soln., dms., c.l., frt. equald., 100% basis lb. .37 - —
l.c.l., frt. equald, 100% basis. lb. .37½- —
tanks, frt. equald, 100% basis. lb. .31 - —
Monosodium fluoroacetate (see Sodium fluoroacetate monobasic).
Mono-tertiary-butylmetacresol (see 6-tert-Butyl-m-cresol)
Glutamate (see Sodium glutamate monobasic).
Phosphate (see Sodium phosphate monobasic).
Morphine, cns ..... oz. 12.40 - 12.60
Acetate, anhyd., cns ..... oz. 9.95 - 10.00
Hydrobromide, cns ..... oz. 9.90 - 9.95
Hydrochloride, NF, cns ..... oz. 9.90 - 9.95
Sulfate, USP, cns ..... oz. 9.90 - 10.05
Morpholine, dms., c.l., dlvd. E lb. .54¾- —
l.c.l. dlvd. E ..... lb. .55¾- —
tanks, dlvd. E ..... lb. .52¾- —
Musk, syn., ambrette, 100-lb. lots, fib. dms lb. 5.15 - —
25-lb lots, cns ..... lb. 5.20 - —
5-lb lots, cns ..... lb. 5.30 - —
ketone, 100-lb. lots, fib. dms. lb. 5.30 - —
25-lb lots cns ..... lb. 5.35 - —
5-lb lots, cns ..... lb. 5.45 - —
25-lb lots, cns ..... lb. 1.45 - —
5 lb. lots, cns ..... lb. 1.50 - —
xylol, 100-lb. lots, fib. dms. lb. 1.40 - —
Mustard seed, Danish, yellow, bgs lb. .11 - .12
Dutch, bgs. ..... lb. No prices.
English, yellow, bgs ..... lb. .11½- .12
Montana, oriental, bgs ..... lb. .09 - .09½
Myrobalans, J-1, assorted, bgs., ex dock ... ton. 68.00 Nom.
crushed, bgs., ex dock ..... ton. 80.00 Nom.
Bombay, bgs., ex dock ..... ton. 63.00 Nom.
Montana, oriental, bgs ..... lb. .10½- —
extract, indian, solid, 55% tannin, bgs., ex dock, plus duty lb. .10 - .10¼

N

Naphtha, painters (see Petroleum naphtha V. M. & P.).
Solvent (see S)
Naphthalene, crude, dom., 74°, tanks, frt. equald lb. .06¼- —
78°, bgs., c.l., same basis lb. .07½- .08
l.c.l., same basis ..... lb. .07¾- .08¼
tanks, same basis ..... lb. .07 - —
Imp., 78°, large lots ..... lb. .07 Nom.
refd., indust., chipped or crushed, bgs., frt. equald ..... lb. .12½- —
tanks, same basis ..... lb. .11¾- —
balls, flakes, wholesalers, jobbers, bbls., c.l., same basis. lb. .15½- —
cs., 50 lbs., c.l., same basis lb. .15¾- —
1-lb. pkgs., c.l., same basis. lb. .18½- —
a-Naphthol, bbls., frt. alld ..... lb. 1.00 - —
b-Naphthol, tech., flake, bbls., c.l., works lb. .33 - —
t.c.l., works ..... lb. .35 - —
Benzoate, fib. dms., works ..... lb. 3.00 - —
custom contract, works ... lb. 1.65 - —
Salicylate, dms ..... lb. 5.00 - —
Sulfate, cns ..... lb. 35.00 - —
a-Naphthylamine, bbls, frt. alld lb .80 - —
b-Naphthylamine, tech., flake, bbls., works lb. 1.60 - —
Neocinchophen, USP, dms., frt. adjusted lb. 7.00 - 8.00
Neomycin, fib. dms., 1 kilo lots, basis, activity, gram. .45 - —
500-999 gram lots, basis, activity, gram. .50 - —
Nerolin, cns ..... lb. 2.15 - 2.65
Niacin (see Acid nicotinic).
Niacinamide (see Nicotinamide).
Nickel acetate, bbls., dlvd ..... lb. .77 - .90½
Carbonate bbls., dlvd ..... lb. .73¾- .81¾
Chloride, bbls., dlvd ..... lb. .38½- .46½
Formate, bbls., ton lots, frt. alld, works lb. .68 - .69
Metal, electro cathodes, cs., works lb. .64½- —
Nitrate, bbls., works ..... lb. .37 - .38
Oxide, black, bbls ..... lb. .76 - —
green bbls. ..... lb. .76 - —
Sulfate, bgs., c.l., dlvd ..... lb. .30¼- —
l.c.l., dlvd ..... lb. .31¼- .38¼
Nicotinamide, USP, dms., frt. adjusted kilo. 12.00 - 12.30
Hydrochloride, dms. frt. adjusted kilo. 11.50 - 11.80
Nicotine sulfate, 40%, dealers, 50-lb. dms., frt alld ..... lb. 1.20 - —
manufacturers, 500-lb. dms., frt. alld lb. 1.03 - —
Niger seed, bgs ..... lb. .11 - .11½
Nikethamide, ehys ..... lb. 7.50 - —
m-Nitroaniline, cryst., dms., frt. alld. lb. 1.15 - —
paste, 100% basis, dms., frt. alld. lb. 1.10 - —
o-Nitroaniline, flaked, dms .... lb. .54 - .57
powd., dms ..... lb. .60 - —
p-Nitroaniline, dms., frt. alld ... lb. .445 - —
Nitrobenzene, dbl. dist., dms., c.l., frt. alld lb. .12 - —
t.c.l., frt. alld ..... lb. .13 - —
tanks, frt. alld ..... lb. .11 - —
Nitrocellulose, ester-soluble, 30-35 cps. ¼, ½, ¾, 5-6, 15-20, 30-40, 60-80, 125-175, secs., bbls., c.l., works lb. .34 - —
t.c.l., same basis ... lb. .35 - .37
18-25 cps., bbls., c.l., same basis lb. .36 - —
t.c.l., same basis ... lb. .37 - .39
Nitrocellulose, ester-soluble, 250-400, 600-1,000 secs., bbls., c.l., same basis lb. .39 - —
t.c.l., same basis lb. .40 - .43
spirit-soluble, 30-35 cps., ¼, ½, secs., bbls., c.l., same basis lb. .41 - —
t.c.l., same basis lb. .42 - .44
5-6 cps., 40-60 secs., bbls., c.l., same basis lb. .40 - —
t.c.l., same basis lb. .41 - .43

Denatured alcohol used in the manufacture of nitrocellulose is charged extra. Drums extra but returnable.

o-Nitrochlorobenzene, dms., c.l., frt. alld lb. .20 - —
t.c.l., same basis ..... lb. .21 - —
tanks, same basis ..... lb. .18 - —
p-Nitrochlorobenzene, dms ..... lb. .26 - .27
2-Nitro-4-chlorophenol, dms ..... lb. .75 - —
Nitroethane, dms., c.l., dlvd. E lb. .24 - —
l.c.l., dlvd. E ..... lb. .24¼- —
tanks, dlvd. E ..... lb. .22½- —
Prices West of Rockies are 1c. higher.
Nitrogen solution, 37%N, tanks, frt. equald., per ton of product basis ton. 47.50 - —
40.8% N, tanks, same basis ton. 52.15 - —
Nitrogenous process rankage, bulk, works unit-ton. 4.00 - 5.10
Sewage sludge, bulk, works, unit-ton. 2.95 + .50
Nitromethane, dms., c.l., dlvd. E lb. .24 - —
l.c.l., dlvd. E ..... lb. .24½- —
tanks dlvd E ..... lb. .22½- —
Prices West of Rockies are 1c. higher.
a-Nitronaphthalene, bbls., frt. alld. lb. .41 - —
Nitropropane-1, and -2, dms., c.l., dlvd. E lb. .22½- —
l.c.l., dlvd. E ..... lb. .23¼- —
tanks, dlvd. E ..... lb. .21 - —
Prices West of Rockies are 1c. higher.
o-Nitrophenol, dms., works, frt. equald lb. .94 - —
p-Nitrophenol, dms., works, frt. equald lb. .50 - —
o-Nitrotoluene, dms., c.l., frt. alld. lb. .10 - —
l.c.l. frt. alld ..... lb. .11 - —
tanks, frt. alld ..... lb. .09 - —
p-Nitrotoluene, dms., works ..... lb. .33 - —
m-Nitro-p-toluidine, dms ..... lb. 1.59 - —
Nitrous ether, conc., bots 100-lb. lots lb. 1.28 - 1.35
Nonyl phenol, dms., c.l., frt. alld. lb. .26 - —
l.c.l., frt. alld ..... lb. .27 - —
tanks, frt. alld ..... lb. .24 - —
Nutgalls, Aleppo, bgs ..... lb. .36 - .38
Chinese, bgs. ..... lb. No prices.
Nutmeg, East Indian, bgs ..... lb. .66 - .68
West Indian, bgs ..... lb. .65 - —
Nux vomica, bls ..... lb. .10 - .12
powd., bbls., bxs ..... lb. .15 - .17

O

Octane, indust., tanks, Bayonne, N. J gal. .19 - —
Baytown, Tex ..... gal. .15¾- —
Borger, Tex ..... gal. .15¾- —
1-Octanol, tech., dms., c.l., dlvd. lb. .35 - —
l.c.l., dlvd ..... lb. .37 - —
tanks, dlvd ..... lb. .32½- —
Octyl phenol, bgs., c.l., works lb. .23¼- —
l.c.l. works ..... lb. .23¾- —
tanks, works ..... lb. .22½- —
Drum prices for octyl phenol are 1c. higher.

(Essential oils prices listed below are f.o.b. New York, with differences between high and low quotations due to differences in quantity, quality or in individual suppliers' views.)

Oil, abies, siberica, cns ..... lb. 3.00 - 3.50
Almond, artif., bitter (see Benzaldehyde).
nat., bitter, F.P.A., bots ... lb. 3.00 - 3.75
NF, bots. ..... lb. 3.25 - 3.75
sweet, USP, dms., cns ..... lb. 1.15 - —
Allspice (see Oil, pimento).
Amyris, dms ..... lb. 1.30 - —
Angelica root, bots ..... lb. 66.00 - 100.00
seed, bots ..... lb 56.00 - 95.00
Aniline (see A).
Anise, USP, dms ..... lb. 3.15 - 4.00
Apricot, kernel, USP, dms .... lb. .48 - —
Avocado, cns. ..... lb. 3.25 - —
Bay, NF, Puerto Rican, 50-55%, cns lb. 1.90 - 2.75
55-60%, cns. ..... lb. 2.10 - 2.50
West Indian, 50-55%, cns., dms., lb. 1.85 - 2.40
Bergamot, nat., NF, Italian, cns. lb. 8.50 - 11.00
Birchtar, crude, cns ..... lb. 1.50 - 1.90
rectified, NF, cns ..... lb. 1.75 - —
Bois de rose, Brazil, dms .... lb. 3.55 - 3.75
Mexican (see Oil, lignaloe wood).
Bone, dms., works ..... lb. .65 - .70
Cajeput, native, cns ..... lb. 1.75 - 2.10
redist., USP, cns ..... lb. 2.25 - 3.00
Calamus, bots ..... lb. 12.00 - 20.00
Camphor, sassafrassy, dms .... lb. .30 - .45
white, dms ..... lb. .29 - —
Cananga, native, cns ..... lb. 8.00 - 9.00
rectified, cns. ..... lb. 12.00 - 14.75
Caraway, NF, cns ..... lb. 3.65 - 5.00
Capsicum (see Capsicum oleoresin).
Cardamom, NF, bots ..... lb. 36.00 - 45.00
Cassia, USP (see Oil, cinnamon, USP).
Castor, blown, dms., c.l. ..... lb. .2100- —
l.c.l. ..... lb. .2150- —
dehydrated, bodied, dms., c.l lb. .2310- —
l.c.l. ..... lb. .2360- —
tanks ..... lb. .2160- —
unbodied, dms., c.l. ..... lb. .2160- —
l.c.l. ..... lb. .2210- —
tanks ..... lb. .2010- —
Hydrogenated, bgs., c.l., dlvd. lb. .21¾- —
l.c.l., dlvd. ..... lb. .27¾- —
No. 3, tech., dms., c.l. ..... lb. .1625- —
l.c.l. ..... lb. .1675- —
tanks ..... lb. .1475- —
No. 1, Brazilian, tanks ..... lb. .15½- —
USP, dms., c.l. ..... lb. .1850- —
l.c.l. ..... lb. .1900- —
tanks ..... lb. .1700- —
refd. and deodorized, dms., c.l lb. .2075- —
l.c.l. ..... lb. .2125- —
tanks ..... lb. .1925- —
sulfonated, 50%, dms., l.c.l. lb. .11½- .12¼
75%, dms., l.c.l. ..... lb. .14½- .15¼
Cedarleaf, USP, XIII, cns., dms. lb. 3.15 - 3.50
Cedarwood, cns., dms ..... lb. .65 - 1.00
Celery seed, bots ..... lb. 12.50 - 20.00
Chamomile, blue, Hungarian, bots. lb. 90.00 - 180.00
Chenopodium, NF, cns ..... lb. 3.45 - 3.50
Chinawood (see Oil, tung).
Cinnamon, bark, bots ..... lb. 25.00 - 70.00
leaf, crude, dms ..... lb. 1.70 - 2.00
USP, cns., dms. (Cassia) ... lb. 13.50 - —
Citronella, Ceylon, cns., dms lb. 1.00 - 1.70
Java, cns. ..... lb. 2.05 - —
Java-type, cns. ..... lb. 2.10 - 2.25
Clove, bud, USP, cns., dms .... lb. 2.65 - —
leaf, crude, dms ..... lb. 1.20 - 1.50
Coconut, crude, tanks, N. Y. .... lb. .12 - —
Pac. Coast ..... lb. .10¾- —
refd., Cochin type, dms., tax incl., l.c.l. lb. .19 - —
deodorized, tax incl., dms., l.c.l. lb. .21½- —

the story behind the headline

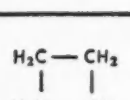
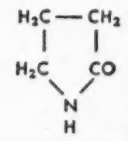
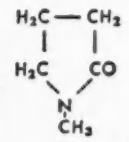
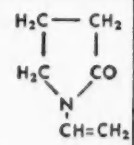
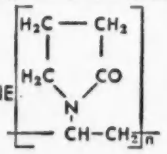
For those of you who have not been eating, sleeping and breathing high pressure acetylene reactions as we have, a brief reminder on the background of these products may be in order. In the early 1930's, Dr. J. Walter Reppe, working in Germany, licked the previously "impossible" problem of handling acetylene efficiently and safely at high temperatures and high pressures in chemical syntheses. This led him and his group into varied investigations which resulted in the synthesis of numerous chemicals which had previously been completely unknown, or at best only obtainable by elaborate and expensive reactions.

Even though widespread work in this field has continued steadily up to the present, and the laboratories of General Aniline in this country have been engaged in their own independent research for more than ten years, vast and challenging areas of research still remain for exploration in the new branch of chemistry involving high pressure acetylene reactions.

When the GAF laboratories began synthetic work in the new field, none of the products they turned out had ever been available in the U.S. in commercial volumes and at commercial prices. We, therefore, found it necessary to do some rather fancy, long-range extrapolating from the physical and chemical properties of all of the products to their potential applications and sales volumes in order to decide which would be of greatest immediate industrial value. Following these decisions came sales development, application research, and process development in the laboratory and pilot plant. Finally, the plant stage has been reached for the first group of products now to be made at GAF's new Calvert City plant.

They are a related series resulting from the reaction of acetylene with formaldehyde to yield a mixture of butynediol and propargyl alcohol. In a relatively brief time they have developed an astonishing and, we must confess, in part unexpected range of applications about which GAF's Commercial Development Department has told you in advertisements, data bulletins and personal visits. Along with the large new plant now also comes a new, full-scale sales department eager to help you use these products to your best advantage.

We expect to be reporting the commercialization of many more high pressure acetylene derivatives in the future, but no announcement will have quite the significance of this first one, both for you and for us. We believe it represents a milestone for our industry: the first of many commercial high pressure acetylene derivatives plants in the United States.

PRODUCTS TO BE AVAILABLE FROM GAF's NEW PLANT AT CALVERT CITY, KENTUCKY:	
PROPARGYL ALCOHOL $HC{\equiv}CCH_2OH$	2-BUTYNE-1,4-DIOL $HOCH_2C{\equiv}CCH_2OH$
1,4-BUTANEDIOL $HOCH_2CH_2CH_2CH_2OH$	BUTYRO-LACTONE 
2-PYRROLIDONE 	N-METHYL-2-PYRROLIDONE 
N-VINYL-2-PYRROLIDONE 	POLYVINYL-PYRROLIDONE (PVP) 

For technical information, price schedules and samples write to:

ACETYLENE CHEMICALS DEPARTMENT
ANTARA® CHEMICALS
A SALES DIVISION OF
GENERAL ANILINE & FILM CORPORATION
435 HUDSON STREET · NEW YORK 14, NEW YORK

ANTARA gaf

From Research to Reality

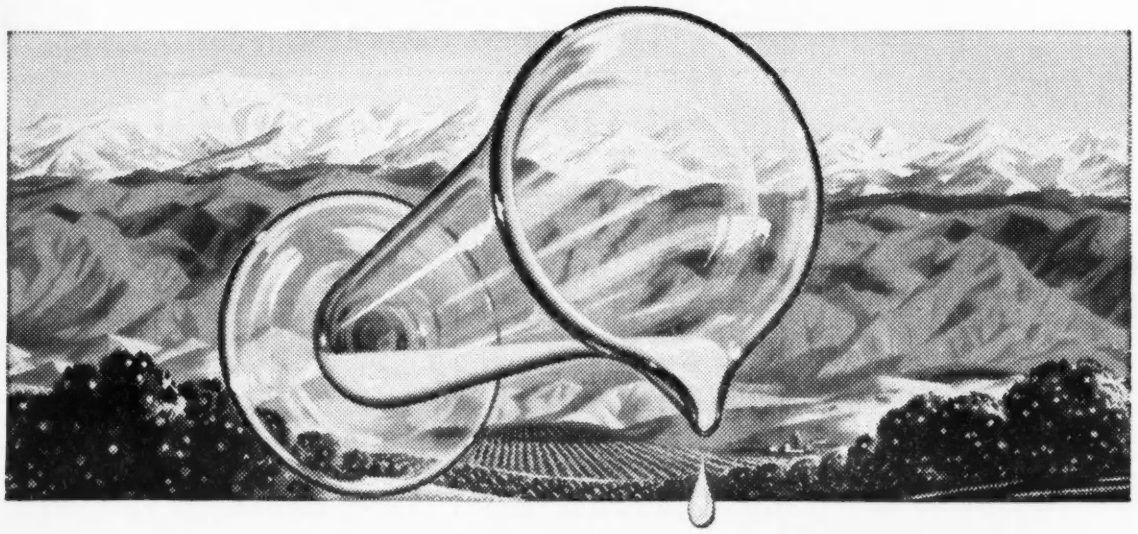
Oil, cod, Newfoundland, dms... lb. .11½ Nom.
Codliver, USP, dms... gal. 1.45 - 1.55
Copaiba, cns... lb. 1.75 - 2.50
Coriander, USP, bots... lb. 13.00 -15.00
Corn, crude, tanks, works... lb. .15¼- —
foots (soapstock), acid 95%, tanks, N. Y.. lb. .06⅛- —
refd., salad, dms... lb. .20¼- .20½
tanks... lb. .18¾- —
Costus, bots... lb. 8.00 - —
Cottonseed, crude, tanks, South East. lb. .14¼ Nom.
Valley... lb. .14⅛ Nom.
Texas... lb. .13⅞- .14⅛
foots (soapstock), acid 95%, tanks, N. Y. lb. .04 - —
refd., salad, dms... lb. .19¼- .19½
tanks... lb. .17¾- —
Creosote (see Creosote, coaltar).
Cubeb, cns... lb. 4.10 - 4.25
Cumin, bots., cns... lb. 5.25 - 5.75
Cypress, bots... lb. 5.30 - —
Degras (see D).
Dillseed, bots... lb 2.80 4.25
Dillweed, dom., bots., dms... lb. 3.50 - 4.50
Dip (see D).
Erigeron, cns... lb. 5.50 - 7.50
Eucalyptus, NF, rectified, 70-80%, drums lb. .72 - 1.05
80-90%, dms... lb. .78 - 1.10
Fennel, sweet, USP, cns... lb. 2.80 - —
Fir, Canada, cns... lb. 2.35 - 3.00
Fish, refd., alkali, dms... lb. .1400- .1450
kettle-bodied, dms... lb. .1630- .1680
light-pressed, dms... lb. .1250- .1300
tanks... lb. .1100- —

Oil, fishliver, crude, for feeds or concentrating 4,000 to 12,000 A units per gram, dms., 1,000,000 units. .08 - .09
10,000 to 20,000 A units per gram, dms., 1,000,000 units. .09 - .10
25,000 to 35,000 A units per gram, dms., 1,000,000 units. .09 - .10
40,000 to 55,000 A units per gram, dms. 1,000,000 units. 10½- .11
100,000 A units per gram., dms 1,000,000 units. .14 - —
200,000 A units per gram., dms 1,000,000 units. .15½- —
500,000 A units per gram., dms 1,000,000 units. .16 - —
Prices above are based on the USP XIV method of conversion, Morton Stubbs Corrected E x 1900.
Fusel (see F).
Garlic, pure, bots... oz. 4.75 - 9.50
Gaultheria (see Oil, wintergreen).
Geranium, Algerian, cns... lb. 12.75 -13.00
Bourbon, cns... lb. 13.25 -14.00
Turkish (see Oil palmarosa)
Ginger, dist., bots... lb. 17.85 -19.00
Grapefruit, dms... lb. 1.80 - 3.25
Grease, No. 1, dms... lb. .15¼- .16¼
extra, winter, strained, dms lb. .17¼- .18¾
prime, burning, dms... lb. .18¾- .19¾
Guiacwood, cns... lb. 1.45 - 1.50
Hemlock, cns... lb. 2.10 2.50

Oil, juniper berry, NF, VIII, bots.. lb. 2.75 - 4.00
twice rectified, bots... lb. 3.60 - 7.00
Tar, NF (see Juniper tar).
Wood, tech., cns... lb. .38 - .55
Lard (see Oil, grease).
Laurel leaf, dms., cns... lb. 9.75 -12.50
Lavandin, dms., cns... lb. 2.35 - 2.85
Lavender, flower, USP, French, 35-37% ester, cns... lb. 2.85 - 4.60
38-40% ester, cns... lb. 8.50 - 9.50
40-42% ester, cns... lb. 8.75 - —
spike, Spanish, cns... lb. 1.85 - 2.30
Lemon, USP, Calif., cns., dms.. lb. 4.65 - 6.00
Messina, cns... lb. 5.50 - —
terpeneless, bots... lb. 50.00 -85.00
Lemongrass, cns., dms... lb. 2.00 - 2.10
Lignaloe wood, Mex., cns... lb. 4.65 - —
Lime, dist., Mexican, cns... lb. 3.00 - 3.25
West Indian, cs... lb. 3.00 - 3.25
expressed, West Indian, cns.. lb. 6.00 - 8.00
terpeneless, bots... lb. 29.50 -100.00
Linseed, raw, dms., c.l., N. Y.. lb. .1870- —
l.c.l.... lb. .1920- .1970
tanks (f.o.b. Minneapolis)... lb. .1560- —
New York... lb. .1685- —
tankwagon, New York... lb. .1725- .1735
Boiled linseed oil, .006c per lb. higher.
Mace, dist., cns., dms... lb. 4.75 - —
Mandarin (see Oil, tangerine).
Menhaden, crude, new crop, tanks, works, Atlantic & Gulf.. lb. .08 - .08⅛
Mineral, white (see Oil, white mineral).
Mirbane (see Nitrobenzene).
Mustard seed, nat., dms... lb. .17 - .17½
syn., bots... lb. 1.60 - 1.85
Neatsfoot, 15° cold test, dms... lb. .33 - .34
20° cold test, dms... lb. .32 - .33
30° cold test, dms... lb. .30 - .31
Neroli, NF, French, bots... lb. 250.00 -310.00
Spanish, bots... lb. 32.50 -85.00

Oil, nutmeg, USP, dist., East Indian, cns., dms.. lb. 4.75 - —
West Indian, cns., dms.. lb. 4.65 - —
Ocotea cymbarum, dms... lb. .55 - .58
Oiticica, liq., dms... lb. .16¼- .16¾
tanks... lb. .15 - —
Oleo, extra, dms... lb. .13¾- .14
Olibanum, bots... lb. 5.50 - 7.65
extra fine, bots... lb. 8.00 - 9.00
Olive, edible, Spanish, dms., duty paid.. gal. 3.65 - 3.75
Orange, sweet, dist., cns... lb. .45 - .80
expressed, USP, Brazilian, cns., dms lb. No stocks.
Calif., cns., dms.... lb. .55 - 1.25
Florida, cns., dms... lb. .45 - .50
Messina, cns.... lb. 3.85 - 5.85
West Indian, cns., dms lb. 2.50 - 3.65
sesquiterpeneless, bots... lb. 65.00 -120.00
Origanum, Spanish, cns... lb. 2.00 - —
Palm, clarif., dms... lb. 13½- .14
Palmarosa, cns... lb. 8.25 -10.00
Paraffin, pale, 100-110 vis., at 100° F. tanks, East Coast refy gal. .14 - —
Patchouli, dms... lb. 6.50 - 7.00
Peach kernel, USP (see Oil apricot kernel).
Peanut, crude, tanks, f.o.b. mills. lb. .17 - —
refd., dms.... lb. .22¼- .23
tanks... lb. .20¾- —
Pennyroyal, USP, imported, cns. lb. 2.75 - 3.50
Peppermint, nat., dms... lb. 5.60 - 7.50
redist., USP, dms... lb. 5.85 - 8.50
Persic, USP (see Oil, apricot kernel).
Petitgrain South American, cns., dms. lb. 3.40
Pimento, berry, NF, dms... lb. 4.50 - 5.00
leaf, cns.... lb. 2.65 - 3.10
Pine, dest.-dist., dms., l.c.l., works. lb. .12¼- —
ex-whse.... lb. .14¼- —
steam-dist.,, dms., ex whse. N.Y.C lb. .163 - —
Pineneedle, Siberian (see Oil, abies siberica).
Rapeseed, tankcars... lb. .16 - —
Red (see Acid, oleic).
Rice, bran, clarif., dms., l.c.l.. lb. .16½- —
tanks, dlvd. E... lb. .14 - —
Rose, nat., Bulgarian, bots... oz. 48.00 -54.00
Rosemary, Spanish, USP, cns., dms lb. .60 - 1.00
tech., cns., dms... lb. .50 - .70
Rue, bots.... lb. 2.00 - 2.50
Safflower, dms., c.l., Atl. coast lb. .1735- —
tanks, same basis... lb. .1585- —
Sage, clary, bots... lb. 18.75 -19.00
Dalmatian, cns.... lb. 4.50 - 6.00
Spanish, cns... lb. 1.30 - 1.45
Sandalwood, NF, cns... lb. 15.50 -16.10
Sardine, crude, tanks, Pac. coast. lb. .08½- .09
Sassafras, artif., dms... lb. .53 - .70
nat., dom., USP, dms... lb. 1.45 - 2.10
imp., Brazilian (see Oil ocotea cymbarum).
Savin, cns... lb. 2.75 - —
Savory, cns... lb. 4.25 - —
Sesame, refd., dms... lb. .36 - .37
Shingle stain, tar distillate, dms., c.l., works gal. .35 - —
l.c.l., works... gal. .44 - —
tanks, works... gal. 23 - —
Snakeroot, Canada, cns... lb. 27.50 -31.00
Soybean, crude, tanks, Decatur. lb. .14⅛- —
foots (soapstocks), acid, 95%, tanks, N. Y.. lb. .07 - —
refd., alkali, dms... lb. .18⅛- .18⅜
tanks... lb. .16⅜- —
clarified, dms.... lb. .17⅛- .17⅓
tanks... lb. .16⅛- —
salad, dms.... lb. .18⅝- .18⅞
tanks... lb. .17⅛- —
Spearmint, USP, dms... lb. 4.75 - 5.60
Sperm, bleached winter, 45° dms. lb. .1775- .1825
tankcars... lb. .1600- —
nat., winter, 45°, dms... lb. .1675- .1725
tankcars... lb. .1500- —
Spruce, cns., dms... lb. 2.10 - 2.75
Sweet birch, USP, Northern, cns. lb. 4.25 - 9.50
Southern, cns... lb. 3.50 - 3.00
Tall, crude, dms., c.l., works.. lb. .03½- —
tanks, works... lb. .02½- —
dist., dms., c.l., works... lb. .07½- —
l.c.l., works... lb. .07¾- —
tanks, works... lb. .06¼- —
refd., dms., c.l., works... lb. .06½- .06¾
l.c.l., works... lb. .06¾- .07¾
tanks, works... lb. .05¼- .05¾
Tallow, acidless, dms... lb. .13½- .15
Tangerine, Floridian, dms... lb. 2.00 - 2.80
Tansy, dms... lb. 7.50 - 8.40
Tar acid (see T's).
Pine, coml., dms., c.l., works lb. .0561- —
l.c.l., works... lb. .0634- —
whse... lb. .0745- —
tanks, works... lb. .046 - —
rectified, NF, drms., incl., l.c.l., works, South gal. 1.05 - —
ex whse., N. Y. C gal. 1.15 - —
refined, dms., works, l.c.l., incl.. gal. .92 - —
N. Y. whse., l.c.l.... gal. 1.02 - —
Theobroma (see Cocoa butter).
Thyme, NF, red, cns., dms... lb. 1.70 - 2.75
white, cns... lb. 1.95 - 4.00
tech., white, cns... lb. .40 - 1.85
Tung, dms., c.l., N. Y.... lb. .27½- .27¾
l.c.l., same basis... lb. .28 - .28½
tanks, N. Y.... lb. .26 - .26¼
domestic mills... lb. .26¼ Nom.
Turkey red (see Oil, castor, sulfonated).
Turpentine, NF, cns., dms.... lb. .28 - .45
Vetiver, Bourbon, cns.... lb. 13.00 -17.00
Haitian, cns... lb. 9.60 -11.00
Java, cns... lb. 18.50 -20.00
Wheat germ, 5-gal. dms... gal. 11.20 - —
White mineral, tech., 50-65 vis., non-ret. dms., c.l., f.o.b. N. Y.. gal. .51½- .54½
65-75 vis., non-ret., dms., c.l., same basis gal. 52½- .55
l.c.l., same basis gal. .57½- .58¼
80-90 vis., non-ret., dms., c.l., same basis gal. .53½- .56½
l.c.l., same basis gal. .58½- .59½
135-138 vis., non-ret. dms., c.l., same basis... gal. .59½- .62½
l.c.l., same basis gal. .64½- .65½
145-155 vis., non-ret. dms., c.l., same basis.. gal. .66 - .69½
l.c.l., same basis gal. .71 - .71½
175-185 vis., non-ret. dms., c.l., same basis gal. .69¼- .73
l.c.l., same basis gal. .74½- .75
USP, 200-210 vis., non-ret., dms., c.l., same basis.. gal. .73½- .75
l.c.l., same basis.. gal. .77½- .78
345-355 vis., non-ret. dms., c.l., same basis.. gal. .77 - .80
l.c.l., same basis gal. .83 - .86
Wintergreen, USP, nat., Northern, cns.. lb. 6.35 -10.30
Southern, cns... lb. 3.20 -19.50
Syn. (see Methyl salicylate).
Wood (see Oil, tung).
Wormseed (see Oil, Chenopodium, NF).
Wormwood, cns.... lb. 5.00 - 6.85
Ylang-ylang, Bourbon, bots.... lb. 17.00 -30.00
extra, bots... lb. 26.00 -40.00
Madagascar, bots... lb. No stocks
Oleostearine, bbls.... lb. .11 - .11⅛
Opium, USP, cns... oz. 19.20 -19.45
gran., USP, cns... oz. 21.65 -21.90
powd., USP, cns... oz. 21.65 -21.90

NO OTHER INGREDIENT



Means so much and costs so little

What sets your product above your competitor's? FLAVOR! However you use Oil of Lemon, the flavor of your finished product is the most important ingredient.

When something so important costs so little, doesn't it make good sense to buy the best? And the best Oil of Lemon is Exchange Brand, made only from *California and Arizona* lemons—grown and skillfully processed by the Sunkist Growers, the people who know citrus best.

Be sure you don't get adulterated, watered-down lemon flavor.

Ask your supplier to insist on Exchange Brand Oil of Lemon, the *4-to-1 favorite* over all other lemon oils *combined*.

Sunkist Growers
PRODUCTS DEPARTMENT
ONTARIO, CALIFORNIA
Distributed in the U. S. by
DODGE & OLCOTT, INC.
180 Varick St., New York 14, N. Y.
FRITZSCHE BROTHERS, INC.
76 Ninth Ave., New York 11, N. Y.

Exchange ®

Orange cadmium-selenide lithopone, light shade, bbls., frt. alld. E. of Rockies ..lb. 1.80 - —
Deep shade, bbls.....lb. 2.00 - —
Cadmium-Mercury lithopone, deep shade, bbls..lb. 1.78 - —
Chrome, CP, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. R., include Davenport, Tenn., and E. of Minneapolis, Rock Island, St. Louis, St. Paul. lb. .33 - .33½

Chrome orange prices are ½c. higher dlvd. Ala., Fla., Ga., La. (Shreveport); 1½c Miss., N. C., S. C., Tenn., Dallas and Ft. Worth, Tex., El Paso, Tex.; 2c, Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1.6c. higher dlvd. Pac. Coast for Denver, Pueblo, Salt Lake City. Wichita prices are equalized with Chicago

Dinitroaniline toner.....lb. 1.30 - —
Mineral, American, bbls., l.c.l., works lb. .2160- —
Molybdated, bbls .....lb. .46 - .46½
o-Nitroaniline toner, kgs.....lb. 1.15 - —
Peel, bitter, Haitian, bls .....lb. .14 - .16
sweet bls .....lb. .16 - .18
Orris root, Florentine, bls.....lb. .45 - .50
powd., bbls., bxs. .....lb. .50 - .53
Verona, bls. .....lb. .35 - .40
powd., bbls., bxs. .....lb. .40 - .45
Orthoaminobiphenyl (see o-Aminebiphenyl).
Orthoanisidin (see o-Anisidine)
Orthochloroanilin (see o-Chloroaniline).
Orthochlorobenzaldehyde (see o-Chlorobenzaldehyde)
Orthocnloroparanitroanilin (see 2-Chloro-4-nitroaniline).
Orthochlorophenol (see o-Chlorophenol).
Orthocresol (see o-Cresol).
Orthodichlorobenzene (see o-Dichlorobenzene).
Orthonitroanilin (see o-Nitroaniline).
Orthonitrochlorobenzene (see o-Nitrochlorobenzene)
Orthonitrobiphenyl (see o-Nitrobiphenyl)
Orthonitroparachlorophenol (see 2-Nitro-4-chlorophenol).
Orthonitrophenol (see o-Nitrophenol).
Orthonitrotoluene (see o-Nitrotoluene).
Orthopehenetidin (see o-Phenetidine).
Orthophenylphenol (see o-Phenyl phenol).
Ortho-tertiary-amylphenol (see o-tert-Amyl phenol)
Orthotolidin (see o-Tolidine base)
Orthotoluidin (see o-Toluidine)
Osage, orange, cryst., No. 1, bbls. l.c.l lb. .40 - —
extract, liq., No. 1, bbls., l.c.l., lb. .19 - —
Ouabain, USP, bots .... gram. 3.00 - 4.00
Oxyquinolin sulfate, cns., 100-lb. lots, works lb.4.75 - 5.00
smaller lots, works ..... lb. 4.92 - 5.17

P

Papain, USP, African, bots.....lb. 3.50 4.00
Ceylon lb 3.00 3.50
Papaverine, nat. or syn hydrochloride, USP, cns., 25-oz. to 100-oz. lots oz. 5.00 - —
smaller lots..... oz 5.05 5.20
Sulfate, cns. ..... oz 7.10 7.35
Paprika, Roumanian, bgs.....lb. .28 - —
Spanish, bgs. .....lb. .35 - .36
Yugoslavian, bgs. .....lb. .36 - .37
Para-aminophenol (see p-Aminophenol).
Para-anisidin (see p-Anisidine).
Parachloranilin (see p-Chloroaniline).
Parachloro-orthonitroanilin (see 4-Chloro-2 nitroaniline)
Parachlorobenzaldehyde (see p-Chlorobenzaldehyde).
Parachlorophenol (see p-Chlorophenol).
Paracresol (see p-Cresol).
Paradibromobenzene (see p-Dibromobenzene).
Paradichlorobenzene (see p-Dichlorobenzene).
Paraffin, crude scale, white, 123°-127°F, ASTM, solid, c.l., refy lb. .0750- —
fully refd., 122°-124°F., ASTM, c.l., refy. lb. .0905- —
125°-127°F. ASTM, slabs loose, c.l., refy lb. .0905- —
130°-132°F., ASTM, slabs, loose, c.l., refy. lb. .0905- —
132°-134°, ASTM, c.l., refy. lb. .0905- —
135°-137°F., ASTM, slabs, loose, c.l., refy. lb. .0905- —

Prices for paraffin in bags and ctns., c.l. 7-10c. per lb. higher; 1,000 to 9,999 lbs., 2.7c. per lb. higher and under 1,000 lbs. 3.7c. per lb higher.

AMP temperatures are an arbitrary 3°F. higher than ASTM.

Paraformaldehyde, 91%, flake, bgs., c.l., frt. alld lb. .1075- —
l.c.l., frt. alld .....lb. .1275- .1375
powd., bgs., c.l., frt. alld. lb. .15½- —
l.c.l., frt. alld.....lb. .17 - —
USP X, fib. dms., c.l.....lb. .183 - —
1,000-lb. lots.....lb. .193 - —
smaller lots .....lb. .208 - —
Paraldehyde, tech., 98%, 55-gal. dms., c.l. works lb. .13¼- —
l.c.l., works.....lb. .14½- —
tanks, works .....lb. .11½- —
Paranitroanilin (see p-Nitroalinine).
Paranitrochlorobenzene (see p-Nitrochlorobenzene).
Paranitrotoluene (see p-Nitrotoluene).
Paranitrophenol (see p-Nitrophenol).
Paraphenetidin (see p-Phenetidine).
Paraphenylenediamine (see p-Phenylenediamine).
Paraphenylphenol (see p-Phenylphenol)
Para-tertiary-amylphenol (see p-tert-Amylphenol).
Para-tertiary butylphenol (see p-tert-Butylphenol).
Parathion, spray powder, 15% dealers, dms., works lb. .50 - .53
tech., dms., c.l., t.l., works....lb. 1.3395- —
l.c.l., works.....lb 1.51 —
Paratoluenesulphonamide (see p-Toluenesulfonamide).
Paris green, dealer, distributor, dms. c.l., works, frt. alld. on 96 lbs. or over..lb. .44 - —
l.c.l., same basis.....lb. .45 - —
Passion flower herb, bls. .....lb. .20 - .21
Peanut meal, 45%, old process, bgs., mills ton.51.00 - —
Pectin, citrus, NF, powd., bbls. lb. 2.05 - 2.06
tech., powd., bbls.....lb. 1.35 - —
imported, Danish, ex whse lb. 1.28 - —
Penicillin, crystalline, potassium, sterile, bulk, 1,000,000 units. .03¼- .04
Procaine bulk .... 1,000,000 units. .03½- .04
Sodium, sterile, bulk, 1,000,000 units. .03½- .04
Pentachlorophenol, dms., c.l., t.l., works, frt. equald lb. .21 - —
l.c.l., same basis..... lb. .22½- .29
Pentaerythritol, tech., bgs., c.l., works. lb. .32 - —
l.c.l., works .....lb. .33 - —
Di- and tri-isomers (see Dipentaerythritol and Tripentaerythritol)
Pentane, indust., tanks, Tex. refy. gal. .13 - —
Pepper, black, Malabar, spot, bgs lb. .33 - —
red, Cayenne, spot, bgs.....lb. No prices.
Japanese, hontaka, bgs.....lb. .33 - .34
birdseyes, bgs., new crop..lb. No prices.
Mombasa, bgs., shipt.....lb. .65 - —
Nigerian, bgs. .....lb. .29½- —
Turkish, bgs. .....lb. .28 - —
white, bgs.....lb. .44 - .45

Peppermint leaves, USP dom., bls., dms lb. .70 - .75
imp., bls. .....lb. 1.10 - —
Perchloroethylene, dms., c.l., or truckloads, dlvd. E lb. .12½- —
l.c.l., dlvd. E .....lb. .14 - —
tank trucks, 1,000 gal., min. dlvd. E lb. .11½- —
tanks, dlvd E .....lb. .11 - —
dlvd. W. .....lb. .11½- —
Peru balsam dms lb 1.50 1.75
Petrolatum, amber dms. c.l., refy lb. .05⅝- .06¼
l.c.l., dlvd .....lb. .07⅜- .07⅝
tanks, refy .....lb. .03⅞- .04⅜
cream, dms., c.l., refy .....lb. .06¾- .07¾
l.c.l. dlvd. .....lb. .09⅛- .09⅜
tanks, refy. .....lb. .05 - .06¼
extra amber, dms., c.l., refy lb. .05⅞- .06¼
l.c.l., dlvd lb. .07⅝- .07⅞
tanks, refy lb. .04⅛- .05¼
USP white, lily dms. c.l., refy. lb. .07¼- .07⅝
l.c.l., dlvd .....lb. .09½- .09¾
tanks, refy .....lb. .05½- .06⅛
snow, dms., c.l., refy.....lb. .08⅛- .08⅜
l.c.l., dlvd .....lb. .10 - .10¼
tanks, refy .....lb. .06 - .06½
soft, dms., c.l., refy .....lb. .07⅜- .07⅝
l.c.l., dlvd .....lb. .09⅛- .09⅜
tanks, refy. .....lb. .03⅛- .03½
yellow, soft, dms., c.l., refy lb. .05⅞- .06⅜
l.c.l., dlvd .....lb. .07½- .07¾
tanks, refy .....lb. .04⅛- .06½
Petroleum, lacquer diluent, 150°-240°F, b.r., tanks, West Coast, ex tax, Los Angeles gal. .169 - .204
East coast, N. J., N. Y gal. .19 - —
Group 3, benzol-type gal. .14125- .14625
toluol-type gal. .13125- .13375

Orange—Petroleum Solvent

Petroleum, mineral spirits, reg., tanks,, California, ex tax, San Francisco..gal. .164 - —
East coast, N. J., N. Y.gal. .17 - —
Group 3 ..... gal. .11875- —
tankwagon, Boston.....gal. .19 - —
Buffalo .....gal. .195 - —
Chicago .....gal. .279 - —
Cleveland .....gal. .22 - —
Newark .....gal. .18 - —
New York .....gal. .18 - —
Philadelphia .....gal. .185 - —
Pittsburgh .....gal. .18 - —
Providence .....gal. .195 - —
odorless, tanks, refy., Watson, Cal. gal. .245 - —
Borger, Tex gal. .24 - —
Houston, Tex gal. .24 - —
Wood River, Ill gal. .2625- —
dlvd. N. J. ..... gal. .32 - —
dlvd. N. Y. ..... gal. .33½- —
tankwagon, N. J., dlvd gal. .36 - —
N. Y., dlvd gal. .37 - —
Naphtha, cleaners, tanks, East Coast, N. J. and N. Y. gal. .17 - —
Group 3 ..... gal. .12875- —
tankwagon, Newark ..... gal. .18 - —
New York ..... gal. .18 - —
Philadelphia ..... gal. .185 - —
High solvency (see Petroleum solvent, partial aromatic)
VM&P, 225°-300°F, b.r., tanks, West Coast, Los Angeles. gal. .169 - —
Portland, Ore gal. .175 - —
San Francisco gal. .174 - —
Seattle, Wash gal. .175 - —

Petroleum naphtha, VM&P, 225°-300°F, b.r., tanks, East Coast, N.J., N.Y. gal. .18 - —
Group 3 gal. 12875- —
tankwagon, Boston gal. .205 - —
Chicago ..... gal. .289 - —
Cleveland ..... gal. .23 - —
Newark ..... gal. .195 - —
New York..... gal. .195 - —
Philadelphia ..... gal. .20 - —
Pittsburgh ..... gal. .19 - —
Solvent, partial aromatic, tanks, 205°-282° F., b.r., 41°C., m.a.p., N. Y., N. J gal. .245 - —
212°-278°F b.r., 43°C m.a.p., N. J gal. .26 - —
212°-284°F b.r., 19°C. m.a.p., N. J gal. .29 - —
224°-280°F, b.r., 48°C, m.p.a., Houston gal. .215 - —
273°-361°F b.r., 29°C. m.a.p., N. J gal. .29 - —
282°-325°F b.r., 41.5°C. m.a.p. Houston gal. .25 - —
287°-386°F. b.r., 31°C., m.a.p., N. J. gal. .29 - —
310°-344°F., b.r., 13.5°C. m.a.p., Texas City gal. .33 - —
310°-348°, b.r., 17°C., m.a.p., N. Y., N. J gal. .35 - —
340°-360°F. b.r., 16°C. m.a.p., N. Y., N. J. gal. .33 - —
324°-349°F, 37°C., m.a.p., Houston gal. .33 - —
341°-390°F., b.r., 35°C., m.a.p., N. J gal. .27 - —
352°-413°F, b.r., 30°C, m.a.p., Houston gal. .33 - —

Improve your cosmetic product ... keep it factory fresh

...WITH SONNEBORN'S VITAMIN E FORTIFIED CARNATION WHITE MINERAL OIL

√ exceptional purity!
√ excellent stability!
√ outstanding odor and color resistance!
√ longer shelf life!

Creams, hair oils, hair dressings, suntan oils . . . whatever your cosmetic product . . . the White Oil you use should be fortified with Vitamin E to assure greatest stability against odor and color development. Now Sonneborn Research Laboratories have developed and patented a Vitamin E-fortified white oil—CARNATION White Mineral Oil—to help make your finished product better . . . keep it factory fresh.

Give your cosmetic product the stability, the superior shelf life, the greater customer satisfaction—which CARNATION White Oil can help assure.

Why take chances when protection costs no more! Insist on Sonneborn CARNATION White Oil fortified with Vitamin E!

Achieved by Sonneborn RESEARCH

L. SONNEBORN SONS, INC.
New York 10, N.Y.

Petroleum solvent, partial aromatic, tanks, 358°-401°F., b.r. 25°C, m.a.p., N. Y., N. J. gal. .39 - —
364°-404°F b.r., 19°C. m.a.p., N. Y., N. J gal. .425 - —
367°-418°F. b.r., 19.6°C. m.a.p., N. Y., N. J gal. .33 - —
rubber, tanks, Cal., ex tax, San Francisco gal. .173 - —
East Coast, N. J., N. Y. gal. .18 - —
Group 3 gal. .12875- —
Stoddard, tanks, East Coast, N. J., N. Y. gal. .17 - —
Group 3 gal. .12375- —
Pennsylvania, western gal. .15 - —
Boston gal. .19 - —
Chicago gal. .289 - —
Cleveland gal. .22 - —
Los Angeles, ex tax gal. .194 - —
Newark gal. .18 - —
New York gal. .18 - —
Philadelphia gal. .185 - —
Pittsburgh gal. .18 - —
Sulfonate, oil soluble, 60-62% sulfonic content, non-ret. dms., c.l., works lb. .16½- .18¾
l.c.l., works lb. .17½- .19
tanks, works lb. .14½- .17
50-55% sulfonic content, non-ret. dms., c.l., works lb. .16 - —
l.c.l., works lb. .17 - —
tanks, works lb. .13 - —
o-Phenetidine, dms., works lb 1.00 - —
p-Phenetidine, dms., works lb 1.00 - —

Phenobarbital, USP, dms., 100-lb. lots lb. 3.50 - —
Phenobarbital-sodium, USP, dms., 100-lb. lots lb. 3.50 - —
Phenol, 90-92% (cresol 8-10%), non-ret. dms. c.l. frt alld E. of Rockies lb. .16¾- —
l.c.l., same basis lb. .17½- —
tanks, same basis lb. .15 - —
Phenol, 82-84% (cresol 16-18%), non-ret. dms., c.l., same basis lb. .16¼- —
l.c.l., same basis lb. .17 - —
tanks, same basis lb. .14½- —
39°C or above, tar distilled, non-ret. dms., c.l., same basis. lb. .18¼- —
l.c.l., same basis lb. .19 - —
tanks, same basis lb. .16½- —
USP, syn., dms., c.l., frt. alld lb. .18¾- —
1,000-lb. lots or more, same basis lb. .19½- —
less than 1,000-lb. lots, same basis lb. .20½- —
tanks, same basis lb. .17 - —
Phenolphthalein, USP or yellow, bbls., dms., 2,000-lb. lots. lb 1.10 - —
smaller lots lb 1.12 - 1.17
Phenothiazine, NF fib dms. c.l. frt. adjusted lb. .39 - —
over 2,100 lbs., same basis lb. .41 - —
less than 2,100 lbs., same basis. lb. .43 - —
Phenyl acetate, dms., 100-lb. lots, works lb. .50 - —
Salicylate (see Salol.)

Phenylacetaldehyde, soln., 50%, bots lb. 2.40 - 2.70
100%, bots lb. 4.00 - 4.65
Phenylacetamide, 125-lb. dms., works lb. 1.10 - —
smaller dms., works lb. 1.15 - 1.10
dl-Phenylalanine, dms., works lb.27.00 -37.50
1-Phenyl-3-carbethoxy pyrazolone-5, 250-lb. fib. drns., dlvd. E lb. 3.60 - —
smaller dms., dlvd. E lb. 4.00 - —
N-Phenyldiethanolamine, dms., c.l., dlvd. E. lb. .40½- —
l.c.l., dlvd. E lb. .41½- —
tanks, dlvd. E lb. .38½- —
m-Phenylenediamine, dms., frt. alld. lb. 95 - —
o-Phenylenediamine, coml., 100 to 1,000 lbs., fib. dms., works lb. 1.70 - 1.80
p-Phenylenediamine, tech., refd., dms., works lb. 1.42 - —
Phenylethanolamine, dms., c.l., works lb. .75½- —
l.c.l., same basis lb. .76 - —
Phenylethyl acetate, bots lb. 1.30 - —
b-Phenylethylamine, dms., 1,000-lb. lots, works lb. 1.10 - —
smaller lots, works lb. 1.15 - 1.40
Phenylhydrazine base, CP, bots lb. 3.00 - 3.07
Hydrochloride, coml., kgs., works, lb. 1.75 - —
purif., bots., works lb. 5.17 - —
1-Phenyl-3-methyl pyrazolone-5, 250-lb. lots, dlvd. E lb. 1.80 - —
smaller lots, dlvd lb. 2.10 - —
Phenylethylphenyl acetate, bots lb. 3.95 - 4.40
o-Phenylphenol, dms., l.c.l., works, lb. .42 - .44
p-Phenylphenol, bgs., c.l., works lb. .35 - —
l.c.l., works lb. .39½- —
Phloroglucinol, coml., fib. dms., works lb. 6.40 - —
C.P., bots., works lb.17.75 - —
tech., fib. drums., works lb.10.45 - —

Phosphate, defluorinated (see under D).
Rock, Curacao, Atlantic ports, New Orleans ton.45.00 - —
Florida, land pebble, run-of-mine, washed, dried unground, bulk, c.l., mines, 68-66%, b.p.l., bulk, c.l., mines long-ton. 4.81 - 4.82
70-68%, b.p.l., c.l., same basis long-ton. 5.21 - 5.22
72-70%, b.p.l., c.l., same basis long-ton. 5.87 - —
75-74%, b.p.l., c.l., same basis long-ton. 6.87 - —
78-76%, b.p.l., c.l., same basis long-ton. 7.87 - —

The Florida prices (above) are based on fuel oil at $2.47 per bbl. and labor at $1.39. Recent labor advance currently absorbed.

Phosphorus, amorph., red, dms., t.l., works lb. .43 - —
smaller lots, works lb. .44 - .45
white (yellow), solid, dms., c.l., works, frt. equald lb. .20 - .20½
l.c.l., works, frt. equald. lb. .21½- —
tanks, works, frt. equald. lb. .19 - —
Oxychloride, dms., c.l., works lb. .14 - —
l.c.l. works lb. .15 - —
tanks, works lb. .12½- —
Pentasulfide, solid, dms., c.l., works lb. .11½- —
l.c.l., works lb. .12½- —
Pentoxide, dms., c.l., works lb. .13½- —
l.c.l. works lb. .16½- —
Sesquisulfide, tins, cs., works lb. .29 - —
export, dms lb. .31 - .36
Trichloride, dms., c.l., works lb. .14 - —
l.c.l., works lb. .15 - —
tankcars, works lb. .12¼- —
Phthalic anhydride, bgs, c.l., works, frt. equald lb. .20 - —
l.c.l., same basis lb. .2? - —
tanks, same basis lb. .19¼- —
Phthalimide, 97%-98%, dms., frt. alld lb. .65 - —
Phthalylsulfacetamide, 1,000-lb. lots or more lb. 5.00 - —
a-Picoline, ret. dms., c.l., works, frt. equald lb. .43 - .43½
l.c.l., works, frt. equald lb. .44 - —
tanks, same basis lb. .415 - .422
b,g-Picoline, 5°C, dms., c.l., works. lb. .32½- —
l.c.l., works lb. .33 - —
g-Picoline, 98%, dms., works lb. 2.00 - —
Pilocarpine hydrochloride, USP, bots oz. 4.75 - 5.25
Nitrate, USP, bots., vials oz. 4.65 - 4.75
Pimento, Jamaican, bgs lb. .83 - .86
Mexican, bgs. lb. .64 - .65
Pink root, bls. lb 3.00 - 3.25
d-Piperazine hexahydrate, French Codex, bots kilo 8.00 - 8.50
Piperidine, dist., dms. frt. equald. lb. 2.60 - 2.70
Piperonyl butoxide, dms., dlvd. E. lb. 4.50 - 5.05
Cyclonene, dms., dlvd. E lb. 3.70 - 4.25
Pitch, coaltar, 150°-170°F. m.p., tanks, works ton.37.00 - —
Cottonseed, raw, dms., works lb. .02¼- .03
Linseed, dms lb. .06 Nom.
Marine, dms. lb. .04¼ .05
Petroleum (see Asphalt, petroleum).
Soybean, dms., works lb .05 Nom
Tall, dms., works lb. .03¾- .04¼
Plaster of Paris (see Gypsum).
Platinum metal, works oz.97.00 -107.00
Pleurisy root, bls lb. .45 - .50
Podophyllum resin, NF, dms lb.15.60 - —
Poke root, bls lb. .19 - .22
Polymyxin, bulk, bots., dms., 50 billion units or more, 1,000,000 units. .52 - —
25-50 billion units 1,000,000 units. .54 - —
1-25 billion units 1,000,000 units. .56 - —
Polyoxyethylene sorbitan monostearate, dms., 20,000-lb. lots, works lb. .41 - —
10,000-20,000-lb. lots, works, lb. .43 - —
smaller lots, works lb. .46 - .48
tristearate, dms., 20,000-lb. lots, 10,000-20,000 lb. lots, works, works lb. .41 - —
lb. .43 - —
smaller lots, works lb. .46 - .48
Poppy seed, Argentine, bgs lb. .21 - —
Dutch, bgs. lb. .23 - —
Iranian, bgs. lb. .15 - —
Polish, bgs. lb. .22 - —
Turkish, bgs. lb. No prices.
Potash, caustic, reg., flake, 88-92%, dms., c.l., works 100 lbs. 9.15 - —
l.c.l., works 100 lbs.10.20 - —
liq., 45% basis, dms., c.l., works 100 lbs. 4.25 - —
l.c.l., same basis 100 lbs. 5.05 - —
tanks, same basis 100 lbs. 3.70 - —
solid, 88-92%, dms., c.l., works 100 lbs. 8.70 - —
l.c.l., works 100 lbs. 9.75 - —
Potassium acetate, NF, dms lb. .31 - .36
Bicarbonate, USP, gran., dms lb. .22 - —
powd. dms lb. .24 - —
Bichromate, bgs., c.l., works lb. .16½- —
l.c.l., works lb. .17 - —
Potassium bichromate in dms ¾c. higher.
Bitartrate, NF, dom., gran. or powd., bbls., 5,000 lbs., 1 ship't lb. .38½- —
dms., c.l. lb. .38 - —
smaller lots lb. .39 - .42
imp, kgs. lb. .29 - —
Bromate, dms., 1,000 lbs. or more, lb. .50 - —
25-200-lb. lots lb. .52 - .62
Bromide, USP, gran., bbls., kgs. lb. .35 - .36
Carbonate, NF, gram., bbls., dms. lb. .20 - —
powd., bbls., dms lb. .21 - .22
tech., calcined, bbls., c.l., works. 100 lbs. 9.00 - —
l.c.l., same basis 100 lbs.10.05 - —
hydrated, 83-85%, bbls., c.l., works 100 lbs. 7.60 - —
l.c.l., works 100 lbs. 8.65 - —
Chlorate, cryst., dms., c.l., works. lb. .10¼- —
l.c.l., works lb. .10½- .11⅛
powd., dms., c.l., works lb. .10¾- —
l.c.l., works lb. .11 - .12
NF, gran., 25-lb. metal dms lb. .35 - —
Chloride, agricultural (see Potassium muriate).
indust., 99.9% KCl, bulk, c.l., works ton.28.00 - —
bgs., c.l., works ton.32.25 - —
99.3% KCl, bulk, c.l., works. ton.26.00 - —
bgs., c.l., works ton.30.40 - —
USP, cryst., dms lb. .21 - .23
gran., dms lb. .15 - .17
powd., dms lb. .24 - .26
Chromate, tech., bgs lb. .50 - .50⅛
Citrate, USP gran., dms lb. .41 - —
powd., dms lb. .40½- .41⅛
Cyanide, dms., 20,000-lb. lots or more, works lb. .45 - —
2,000-19,999-lb. lots, works lb. .455 - —
smaller lots, works lb. .465 - —
Dichromate (see Potassium bichromate).
Ferricyanide, dms., ton lots lb. .50 - —
Ferrocyanide, bgs., ton lots lb. .22½- —
smaller lots lb. .23 - —

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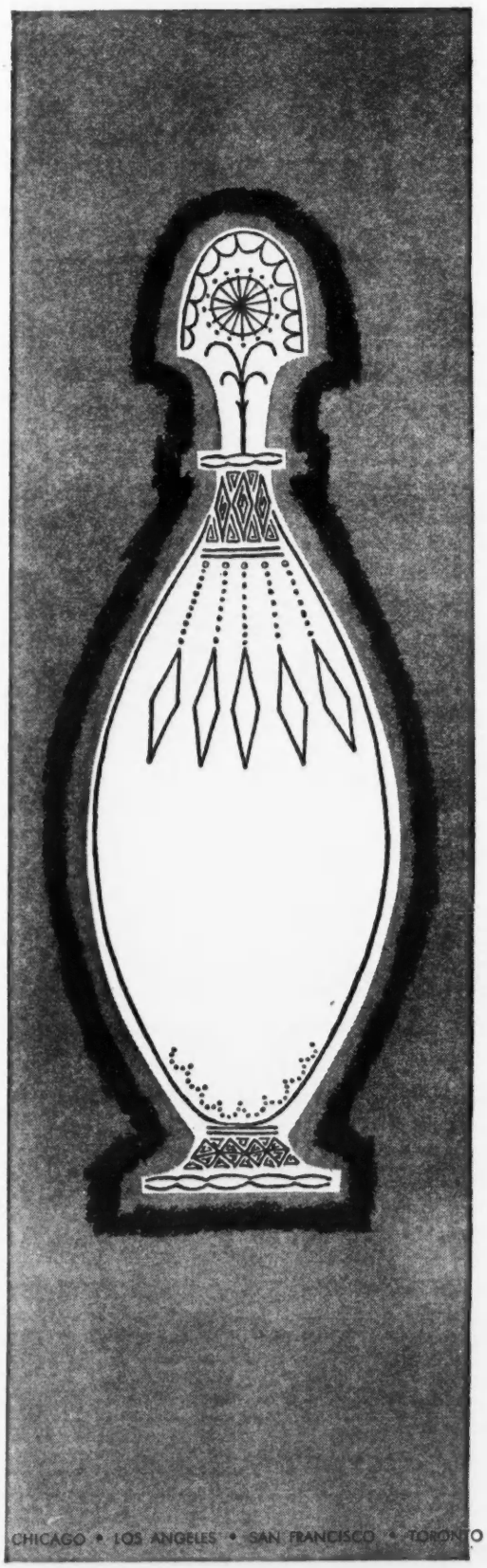
Potassium fluoborate, fib. dms., c.l., works..lb. .30 - —
l.c.l., works.....lb. .31 - —
Fluoride, dms., works.....lb. .37 - .38
Gluconate, dms. .....lb. 1.60 - —
Guaiacolsulfonate, NF, dms.....lb. 2.10 - 2.30
Hydroxide, tech. (see Potash caustic).
USP, pellets 100-lb. dms. 1 to 100-dm. lots lb. .28½- .3o
Hypophosphite, NF, fib. dms., ton lots or less lb. 1.00 - 1.03
Iodide, dms. .....lb. 1.90 - 1.95
Manure salt, 22% K_2O, base price, unit-ton. .17 - .1765
July forward unit-ton. .38 - —
Metabisulfite, gran., dms .20 - .21
powd., dms lb. .25 - —
Muriate, 59-63% K_2O, bulk, c.l., works, base price unit-ton. .36 - —
July forward unit-on. .38 - —
39-63% K_2O_2, bgs, c.l., works, base price..ton.26.00 - —
July forward ton.27.20 - —
Nitrate, cryst., bbls., 20-ton lots. 100 lbs.14.40 - —
smaller lots 100 lbs.14.65 -14.90
gran., bbls., 20-ton lots.100 lbs. 9.75 - —
smaller lots .....100 lbs.11.10 -11.50
powd., bbls., 20-ton lots.100 lbs.10.75 - —
smaller lots .....100 lbs.12.00 -12.50
USP, gran., dms. .....lb. .18 - —
Potassium nitrate in bags 50c, per 100 lbs. less in kegs, $1 more.
Oxalate, neutral, tech., fine gran., bbls., dms..lb. .30 - .32
Pentaborate, gran., bgs., c.l., works..ton.191.50 - —
dms., ton lots, ex whs...ton.198.00 - —
smaller lots, ex whse..ton.302.50 - —
Powdered potassium pentaborate $10.25 per ton higher.
Perchlorate, dms., c.l., works..lb. .17½- —
l.c.l., works .....lb. .18 - .19
Permanganate, coml., kgs., works. lb. .24½- .27½
USP, dms., works.....lb. .27¼- .29
Persulfate, dms., 5-ton lots, works. lb. .18 - —
1-ton lots, works.....lb. .20 - —
Phosphate, tetrabasic, bbls., works. lb. .16¼- .18¼
Prussiate, red (see Potassium Ferricyanide).
yellow (see Potassium Ferrocyanide).
Silicate, glass bgs., c.l., works 100-lbs.17.00 -17.30
l.c.l., works .....100-lbs.17.80 - —
soln, clarif., 29° Be, 1:2,5, dms., c.l., works..100-lbs. 5.30 - —
l.c.l., 5 dms. or more works..100-lbs. 6.55 - 6.95
tanks, works....100-lbs. 5.45 - —
electrical grade, 29° Be, 1:2.0 dms., c.l., works..100 lbs. 6.50 - —
l.c.l., 5 dms. or more, works..100 lbs. 7.25 - 7.65
tanks, works....100 lbs. 6.15 - —
40.5° Be, 1:2.1, dms., c.l., works..100 lbs. 6.45 - —
l.c.l., 5 dms. or more works..100 lbs. 7.20 - 7.60
Silicofluoride, bgs., works....lb. .09½- .10
Potassium silicofluoride in drums, 0.4c. per lb. higher.
Stannate, dms., frt. alld. E....lb. .709 - .775
Sulfate, agricultural 50% K_2O, bulk, works, base price. unit-ton. .64 - —
July forward unit-ton. .67 - —
NF VII cryst., dms.....lb. .31 - .33
gran., dms. .....lb. .18½- —
powder dms .....lb. .36½- .17
Sulfocyanate, NF, cryst. (see Potassium thiocyanate).
Thiocyanate, NF, cryst., dms lb. .84 - .94
tech., works .....lb. .77 - .79
Titanate, ctns., c.l., works.....lb. .14 - —
5-ton lots, works .....lb. .14½- —
1-ton lot or less, works...lb. .14¾- —
Toluene sulfonate, dms., c.l. or tl., works.. lb. .42 - —
l.c.l., works .....lb. .46 - —
Potassium-magnesium sulfate, bulk, works, basis 40% K_2SO_4, 18% MgO, base price..ton.13.45 - —
July forward....ton.14.00 - —
Potassium-sodium tartrate, NF, gran. powd., dms., c.l..lb. .40½- —
5,000-lb. lots .....lb. .41 - —
smaller lots.....lb. .41½- .47
Potassium-titanium fluoride, fib. dms, works..lb. .39 - .40
Potassium-zirconium fluoride, fib. dms, c.l., works..lb. .50 - —
l.c.l., works .....lb. .52½- .55
Pregnenolone, bots. .....gram. .45 - —
Acetate, bots. .....gram. .40 - —
Procaine hydrochloride, USP, dms., 1,000-lb. lots, frt. alld..lb. 2.90 - —
100-lb. lots .....lb. 3.00 - 3.60
Progesterone, USP, bots., 100 gram lots..gram .50 - —
Acetate, bots. .....gram .70 - —
Propane, indust., tanks, group 3, gal. .04½- —
N. Y. Harbor .....gal. .09 - —
n-Propyl acetate, dms., c.l., dlvd..lb. .12¾- —
l.c.l., dlvd.....lb. .13¾- —
tanks, dlvd.....lb. .1075- —
Gallate, dms., 100 to 2,000-lb. lots, works lb. 3.90 - 4.40
p-Hydroxybenzoate, USP, dms..lb. 2.30 - 2.40
Propyl thiouracil, bots., 50-kilo lots or more..kilo.55.00 - —
smaller lots.....kilo.55.10 -55.30
Prices in West 1c. higher dlvd., on same basis.
Propylene dichloride, dms., c.l., dlvd. E..lb. .0825- —
l.c.l., same basis.....lb. .095 - —
tanks, same basis.....lb. .07 - —
Glycol, indust., dms., c.l., dlvd. E..lb. .15½- —
l.c.l., same basis.....lb. .16½- —
tanks, same basis.....lb. .13½- —
USP, dms., c.l., dlvd. E..lb. .17½- —
l.c.l., same basis.....lb. .18½- —
tanks, same basis.....lb. .15½- —
Methyl ether, dms., c.l., dlvd lb. .20 - —
l.c.l., same basis.....lb. .21 - —
tanks, same basis.....lb. .18½- —
Oxide, dms., c.l., dlvd. E.....lb. .17½- —
l.c.l., dlvd. E.....lb. .18½- —
tanks, dlvd. E. .....lb. .15½- —
Psyllium seed, black, bgs. .....lb. .55 - —
blonde, bgs. .....lb. .18 - —
husks, bgs. .....lb. .40 - —
Pumice, dom., grd., coarse to fine, 0, ½, 1, 1½, 2, 3, bgs., ton lots..lb. .03⅝- .04¼
smaller lots.....lb. .03⅞- .04½
imp., Italian, silk-screen, coarse, bgs., ton lots..lb. .06½- —
fine, bgs., ton lots lb. .04 - —
sun dried, coarse, bgs ton. lots lb. .02½- .04
fine, bgs., ton lots.....lb. .02½- .04
Pumpkin seed, bgs.....lb. .25 - .36
Pyrethrin, syn., (see Allethrin).
Pyrethrum flowers, fine grd., 0.9% pyrethrins, bbls., works lb. .45 - —
powd., 1.3% pyrethrins, obls., works. lb. .65 - —
liq. 20/1 basis (2 grams pyrethrins per 100cc odorless base), dms., works..gal. 8.75 - 8.85
100/1 basis (10 grams pyrethrins per 100cc odorless base), dms., works gal.41.75 -42.75
oleoresin, dewaxed, 20%, dms., works..lb.10.00 - —
purif., 20% dms., works....lb.10.00 -10.10
Pyridine, denaturing, dms., c.l., works and frt. equald gal. 2.77 - —
l.c.l., same basis .....gal. 2.80 - —
refd., 2°, non-ret. dms., l.c.l., same basis lb. .75 - —
Pyridoxine hydrochloride, bots., 100-gram lots..gram. .37½- —
Pyrites, Canadian, works..long-ton. 3.00 - 5.00
Pyrocatechol (see Catechol).
Pyrogallol, NF, dms. .....lb. 3.27 - 3.30
Pyroxylin, scrap, ungrd., amber, dms., works lb. .20 - —
black, dms., works..... lb. .12 - —
mixed, mottled, dms., works.lb. .13 - —
shavings, amber, cs., works..lb. No stocks.
mixed colors, dms., works lb. .11 - —
white, china, ivory, dms., works..lb. .16 - —
dense, opaque, dms., works, lb. .12 - .15
translucent pastels, cs., works. lb. .14 - —
transparent colorless, dms., works lb. .25 - —
colors, dms., works.....lb. .15 - —
USP, bots .....lb. 9.50 - —

Q

Quassia chips .....lb. .17 - —
Quebracho extract, clarif., grd., 70% tannin, bgs., c.l., lb. .16¼- .16¾
liq., 35% tannin, bbls., works. lb. .08¼- —
solid, clarif., 64% tannin, bgs., c.l., exdock, duty extra... lb. .12 23/64
ord. 63% tannin, bgs., c.l., same basis lb. .11 21/32- —
Quercitron extract, cryst., No. 1, bbls., l.c.l...lb. .40 - —
liq., No. 1, bbls. l.c.l.....lb. .19 - —
Quicksilver (see Mercury metal).
Quince seed, bgs .....lb. 2.00 Nom.
Quinidine sulfate, USP, cns., 100-oz. lots..oz. .73 - .87
Quinine, NF, cns., 100-oz. lots oz. .54 - —
Bisulfate, USP, cns., 100-oz. lots, oz. .37½- —
Ethylcarbonate, NF, cns., 100-oz. lots oz. .63½- —
Hydrobromide, NF, cns., 50-oz. cns oz. .47½- —
Sulfate, USP, cns., 100-oz. lots oz. .42 - —
Quinine and Urea hydrochloride, NF, cns oz. .56 - —
Quinoline, dms., c.l., frt. equald. lb. .50¾- —
l.c.l., same basis.....lb. .51¼- —
tanks, same basis.....lb. .50 - —

R

R salt, paste, dms., frt. alld., 100% basis lb. .88 - —
powd., frt. alld. 100% basis lb. .98 - —
Rauwolfiia serpentina, root, powd., bbls, dms lb. 2.00 - 3.00
Red, BON acid maroons, pure, bbls., lb. 1.75 - —
resinated, bbls lb 1.50 - —
arylid, deep shades, bbls. lb. 3.60 - —
light shades, bbls lb 2.75 - —
maroon bbls lb 3.60 5.90
Cadmium, CP, dark shade, bbls., frt. alld. E. of Rockies lb. 4.20 - —
light shade, bbls., same basis. lb. 4.00 - —
medium shade, bbls., same basis lb. 4.25 - —
medium light shade, bbls., same basis lb. 4.05 - —
orange shade, bbls, same basis lb. 3.95 - —
orange red, bbls., same basis. lb. 1.81 - —
Cadmium selenide lithopone, light red shades, bbls., same basis. lb. 2.24 - —
medium light red shades, bbls., same basis lb. 2.49 - —
medium red shade, bbls., same basis lb. 2.99 - —
dark red shade, bbls., same basis lb. 3.44 - —
maroon shade, bbls., same basis..lb. 3.77 - —



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Red, Cadmium Selenide Lithopone—Sodium Bifluoride

Red, cadmium selenide lithopone, dark maroon shade, bbls., same basis lb. 3.90 - —
Cadmium mercury lithpone, light shade, bbls lb. 1.95 - —
medium-light shade, bbls. lb. 2.10 - —
medium shade, bbls lb. 2.25 - —
dark shade, bbls lb. 2.40 - —
Carmine No. 40 (see Carmine).
Dyes (see Dyes, coaltar).
Eosin toner, bbls., works lb. 1.65 - —
Indian, dom., pure, bgs., Bethlehem Easton E St Louis, N Y lb. .12¾- —
Iron oxide, nat., 75-85% ferric oxide bgs l.c.l. Bethlehem Pa., Copley, O., Easton, Pa., bgs., c.l., works lb. .0675- —
Lake C toner alizarin, bbls., works lb. 1.13 - —
rubine toner pure, bbls, works lb 1.50 - —
resinated, bbls., works lb 1.40 - —
Virginia type, bbls., works lb. 1.40 - —
Maroon toner, MNPT, kgs., c.l., works lb 3.60 - —
10,000-lb lots works lb 4.22 - —
smaller lots, works lb 4.24 - —
Metallic, bbls., c.l., works lb. 02½- —
l.c.l., works lb 02¾- —
Naphthol, ITR, bbls., works lb. 5.25 - —
Oxide (see Red iron oxide).
Persian Gulf, bgs., c.l., works. lb. .07¾- —
l.c.l., works lb. .08 - —
Red, para toner, bbls lb. 1.10 - —
chlorinated, kgs lb. 1.10 1.15
Phloxin toner (see Red eosin toner)
Rhodamine, molybdated, PMA, kegs lb 5.35 - —
tungstated, PTMA works kegs.
Spanish oxide, bbls., c.l., ex-dock. lb. .05¾- —
l.c.l., ex dock lb. .06 - —
ex whse., New York lb. 06½- —
Toluidine toner, deep shades, kgs., works lb. 1.62 - 1.65
light shades, kgs., works lb. 1.62 - 1.65
Turkey, bbls., works lb. .62 - —
Tuscan, bbls., frt equald lb. 24½- .25
lb 6.40 - —
Venetian, 15%, bgs., works lb. .0350- .0037
20%, bgs. works lb .0475- —
25%, bgs. works lb .0525- —
30%, bgs., works lb 0550- —
35%, bgs., works lb. 0575- —
40%, bgs. works lb 0625- —
Watchung-type bbls lb 1.95 —
Red KB base (see 4-Chloro-2-aminotoluene).
Red, precipitate (see Mercuric oxide, red).
Red saunders, NF, powd. bbls lb .35 .40
Reserpine cryst., bots gram 8.00 - 9.00
Resorcinol, tech grade dms. c.l., works, frt. equald lb. .77½- —
l.c.l., same basis lb. .78½- —
USP, dms., works lb 2.75 - —
Monoacetate, NF, dms lb 3.00 3.25
Rhatany root, bgs lb. .15 .16
Rhodinol, 5-lb. cans lb.25.50 -34.00
Rhubarb root, India, whole, bgs lb. 1.75 Nom.
powd., bbls lb 2.50 Nom.
Riboflavin, USP, bots., dlvd kilo.65.00 - —
readily soluble, bots., dlvd kilo.130.00 - —
5'-phosphate-sodium, bots., 100-kilo lots or more kilo.125.00 - —
Rochelle salt (see Potassium sodium tartrate).
Rosin gum and wood (see Naval Stores in Protective Coatings market).
Rotenone fib. dms., works, 100% basis lb.10.00 - —
resin, 25-45% fib dms., works, 30% basis lb. 3.00 - 3.30
Rottenstone, bgs., 5-ton lots, ex-whse lb. .05 - —
ton lots, same basis lb. .04 - —
Rutin, NF, fib dms 25-kilo lots, kilo.17.50 -18.50
10 to 25-kilo lots kilo.17.50 -20.00
1 to 10-kilo lots kilo.18.90 -20.00
Ryania, 100%, powd., bgs., c.l., works lb. .22 - —
l.c.l. same basis lb. .24 - —

S

Sabadilla seed, powd., bbls lb. 49 - 45½
activated, ground with lime, bbls lb. .30 - .32
Saccharin, USP, cryst., soluble, dms., 1000 lb lots lb 1.60 - —
smaller lots lb 1.70 1.80
works lb. .77½- —
l.c.l., works lb. .78½- —
USP, cryst., dms., works lb. 2.75 - —
powd., dms., works lb. 2.95 - —
powd., soluble insoluble, dms., 1000 lb lots lb 1.65 - —
smaller lots lb. 1.75 - 1.95
Saffron, Spanish, USP, tins lb.35.00 -40.00
Safrol, dms lb. 1.60 - —
Sage, Cretan, bgs lb. .11 - —
Dalmatian, bgs. lb. .44 - —
Italian lb. .26 Nom.
Sago flour, raw, bgs lb. .07 - .07¼
refd., bgs lb. .08½- .09
Sal soda (see Soda sal)
Salicylamide, 100-lb. dms lb. 1.00 - —
Salol, NF, gran., bbls., kgs lb. 1.15 - —
Powdered salol, 25c. higher
Salt, rock, paper bgs., c.l. 100 lbs. 1.01 - —
table, vacuum, common, fine, paper bgs., c.l. 100 lbs. 1.21 - —
Saltcake, dom., bulk, works, 100% Na2SO4 basis ton.28.00 - —
Saltpeter (see Potassium nitrate).
Sandalwood, East Indies, chips bgs. .65 - .66
powd., fib dms lb. .75 - .76
Sarsaparilla root, Jmp., Honduras, bls lb. .58 - .62
Mexican, bls. lb. .58 - .62
Sassafras root bark, ord., bls lb. .45 - —
select, bbls lb. .65 - —
Schaeffer's salt, paste, dms., frt. alld. 100% basis lb .95 - —
powd bgs., frt. alld., 100% basis, lb. .95 - —
Scopolamine hydrobromide, USP bots oz.17.40 - —
Seidlitz mixture, bbls., 5,000-lb. lots lb. .30½- —
smaller lots lb .31 .32
Selenium, powd., dms., dlvd lb.13.50 -15.50
Senega root, bls lb. 3.10 - —
Senna leaves, Alex., whole and half, bls lb. .19 - —
siftings lb. .17 - —
Tinnevelly, No. 1, bls lb. .16 - .18
No. 2, bls. lb. .13 - .15
No. 3, bls. lb. .11 - .13
powdered, bbls., bxs lb. .18 - —
pods, bls. lb. .14 - —
Serpentaria, root, bls lb. 5.50 - —
Sesame seed, Egyptian, nat lb. .16¾- —
hulled lb. .21 - —
Nicaragua, hulled, shipt., bgs. lb. .17½- —
nat., bgs. lb. .26½- —
Salvadorian natural lb. .17½- —
Syrian, bgs., natural lb. .16 - —
Shellac, bleached, bonedry, bgs., 1,500-lb. lots lb. .61 - —
bbls., 1,500-lb. lots lb. .63 - —
kgs., 1,500-lb. lots lb. .64 - —
refd., bgs., 1,500-lb. lots lb. .69 - —
bbls., 1,500-lb. lots lb. .71 - —
kgs., 1,500-lb. lots lb. .72 - —
Bonedry shellac prices for less than 1,500 lb. lots 1c. per lb. higher for all packages.
Lemon No. 1, bgs., 10-bg. lots. lb. .53 - —
No. 2, bgs., 10-bg. lots lb. .51 - —
Superfine bgs., 10-bg. lots lb. .49 - .50
TN, bgs., 10-bg. lots lb. .48 - —
Shellac in 1 to 10-bg. lots 1c. per lb. more.
Shingle stain oil (see Oil, shingle stain).
Silica, amorph., dry-grd., 325 mesh, bgs., c.l., works ton.25.00 - —
l.c.l., works, exwhse ton.45.00 -55.00
Hard-quartz, 99½, 325 mesh, bgs., c.l., works ton.20.00 - —
l.c.l., works ton.25.00 -30.00
140 mesh, bgs., c.l., works ton.15.00 - —
l.c.l., works ton.20.00 - —
Silicon tetrachloride, tech., dms., c.l., works lb. .18 - —
l.c.l., works lb. .22 - .30½
tanks, works lb. .17 - —
Silver bullion, ingots, cs Troy oz. .91⅛- —
Cyanide, fib. dms., 2,500-oz. lots. oz. .83¼- —
1,000-oz. lots oz. .83⅜- —
500-oz. lots oz. .83¾- —
100-oz. lots oz. .84 - —
Nitrate, CP, cryst., bots., 2,500-oz. lots oz. .59½- —
1,000-oz. lots oz. .61 - —
500-oz. lots oz. .61¼- —
250-oz. lots oz. .61¾- —
USP granular silver nitrate 4c. per oz higher.
Proteinate, mild, USP, bots., dms., 1,000-oz. lots oz. 1.05 - —
strong, NF, bots., dms., 1,000-oz. lots oz. 1.00 - —
Soapbark, whole, bls lb. .45 - —
crushed, bls., bbls lb. .55 - —
powd., bbls. lb. .55 - —
Soda ash, dense, 58%, paper bgs., c.l., works 100 lbs. 1.80 - —
l.c.l., stock points 100 lbs. 2.90 - 4.67
bbls., c.l., works 100 lbs. 2.40 - —
l.c.l., stock points 100 lbs. 3.55 - 4.22
bulk, c.l., works 100 lbs. 1.50 - —
light, 58%, paper bgs., c.l., works 100 lbs. 1.75 - —
l.c.l., stock points 100 lbs. 3.85 - 4.62
bbls., c.l., works 100 lbs. 2.30 - —
l.c.l., stock points 100 lbs. 3.35 - 5.62
bulk, c.l., works 100 lbs. 1.45 - —
Soda, caustic, flake, 76%, dms., c.l., works, frt. equald 100 lbs. 4.50 - —
l.c.l., stock points 100 lbs. 5.60 - —
liq., 50% sellers, tanks, works, dry basis 100 lbs. 2.80 - —
rayon type, sellers' tanks, works, dry basis 100 lbs. 2.80 - 2.90
70%, sellers' tanks, works, dry basis 100 lbs. 2.90 - —
rayon-type, sellers tanks, works, dry basis 100 lbs. 2.90 - 3.00
solid, 76%, dms., c.l., works, 100 lbs. 4.10 - —
l.c.l., stock points 100 lbs. 5.30 - —
Sal., conc., bgs., c.l., works 100 lbs. 2.30 - —
smaller lots, works 100 lbs. 2.60 - —
Sodium acetate, anhyd., ogs., c.l., works lb. .13 - —
dms., c.l., works lb. .13¾- —
NF, 60%, gran., dms., c.l., works lb. .14 - —
l.c.l., works lb. .15½- —
Alginate, NF, white powd., dms., ton lots, works lb. .87 - 1.30
refd., bbls., works lb. .83 - —
p-Aminobenzoate, dms., 1,000-lb. lots or more lb. 2.25 - —
smaller lots lb. 2.35 - 2.45
p-aminosalicylate, dms., 1,000-lb. lots or more, frt. adjusted lb. 3.75 - —
smaller lots, same basis lb. 3.80 - 4.25
Antimoniate, bbls., c.l., dlvd. E lb. .28 - —
l.c.l., dlvd. E lb. .29½- —
Arsenate, dms., c.l., works lb. .12½- —
l.c.l., works lb. .13¾- .14¾
Arsenite, dms., c.l., works lb. .12¼- —
l.c.l., works lb. .13 - .14½
soln., dms., works gal. .59 - .67
Ascorbate, dms., 25-50 kilo lots. kilo.16.00 - —
10-kilo lots kilo.16.35 - —
5-kilo lots kilo.16.75 - —
1-kilo lots kilo.17.00 - —
bots 500-gram lots kilo.17.50 - —
Benzoate, tech., bbls., dms., lots or more lb. .39 - —
USP, bbls., dms., 100-lb. lots, or more lb. .46 - —
Bicarbonate, USP, gran., bgs., c.l., works 100 lb. 2.80 - —
l.c.l., works 100 lbs. 3.55 - —
powd., bgs., c.l., works 100 lbs. 2.40 - —
l.c.l., works 100 lbs. 3.15 - —
Bichromate, bgs., c.l., works lb. .12¼- —
l.c.l., works lb. .12¾- .13¾
Bifluoride, bbls., c.l., works, frt. equaled lb. .18½- —
l.c.l., same basis lb. .1890- —

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CHEMICAL PROGRESS WEEK-APRIL 23-28

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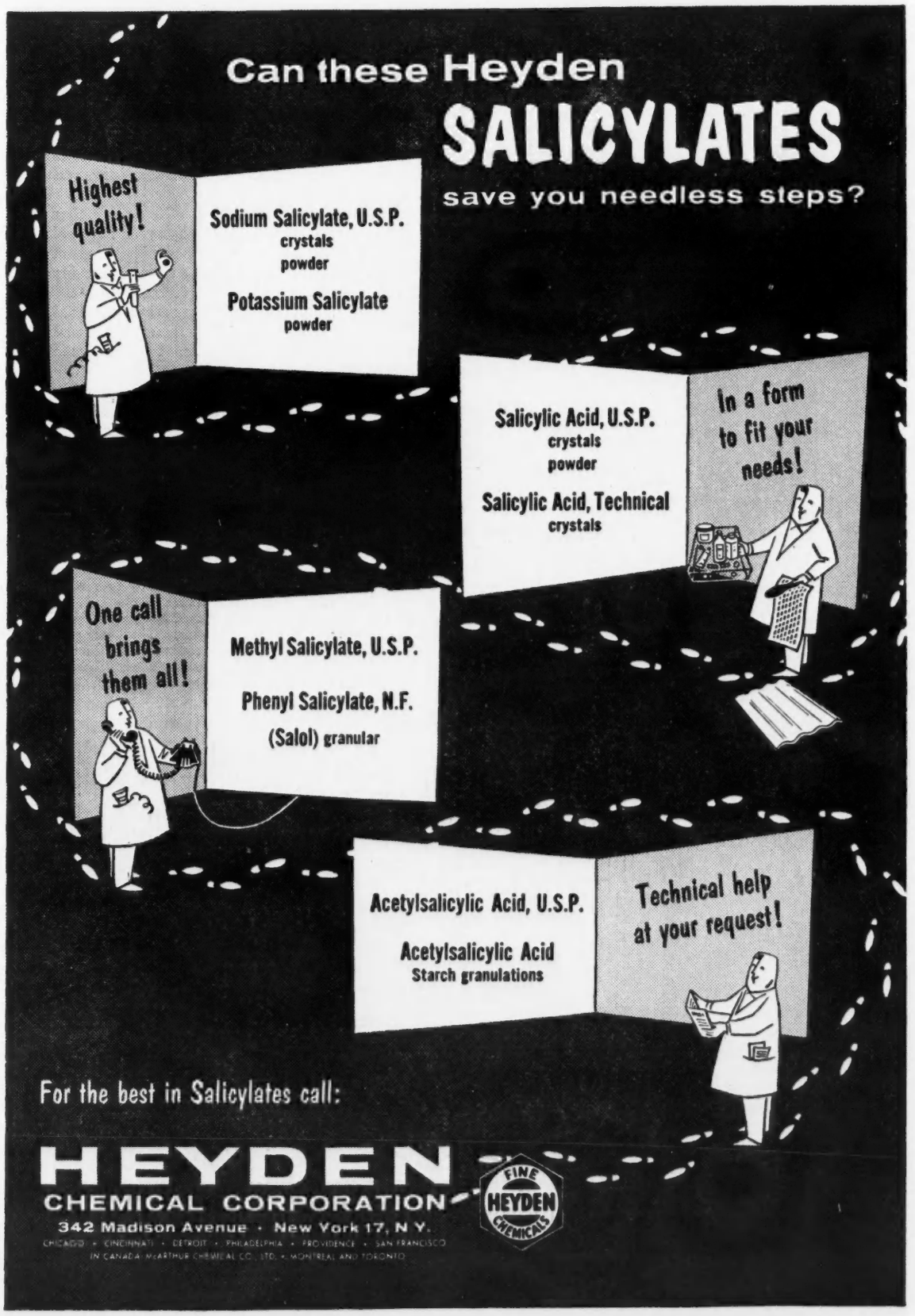
CLEVELAND 3, OHIO

Sodium bisulfate, bulk, c.l., works, 100 lbs. 2.00 - —
dms., c.l., frt. equald..100 lbs. 3.00 - 3.60
l.c.l., frt. equald....100 lbs. 3.50 - 4.10
Bisulfite, anhyd., bgs., c.l., works, 100 lbs. 4.50 - —
l.c.l., works.....100 lbs. 4.90 - —
soln., 35°, bbls., c.l., works, 100 lbs. 1.53 - —
l.c.l., works.....100 lbs. 2.05 - —
Borate (see Borax).
Bromide, USP, bbls., works....lb. .36 - —
Carboxymethyl cellulose (see CMC).
Carbonate, cryst., monohydrated (see Soda, sal).
monohydrated bgs., c.l., works 100 lbs. 3.00 - —
l.c.l., works .....100 lbs. 3.40 - —
Chlorate, cryst., dms., c.l., works, lb. .09 - —
l.c.l., works..... lb. .10½ - .11¼
Chloride tech (see Salt).
USP bgs..... lb. 05 - .12
Chlorite, tech., dms., c.l., works, lb. .58 - —
20-ton lots or more, works, lb. .66 - —
smaller lots, works..... lb. .70 - .73
Chloroacetate, tech., dms., c.l., works..lb. .27 - —
l.c.l., works ..... lb. .28 - —
Chromate, dms., c.l., works....lb. .13¼ - —
l.c.l., same basis ..... lb. .13¾ - .15
Citrate, anhyd., dms .....lb. .62 - —
NF VIII, gran., dms.....lb. .26½ - .27½
USP, XIV gran., dms .....lb. .29½ - .30½
Sodium citrate, USP, powd. prices ½c. higher.
Cyanate, dms., 1,000-lb. lots, works lb. .85 - 1.10
smaller lots, works.....lb. 1.00 - 1.25
Cyanide flake, 96-98%, dms., c.l., or 20,000-lb. lots..lb. .178 - —
over 1,000-lb lots ..lb. .188 - —
100-lb. to 1,000-lb. lots..lb. .198 - —
Granular sodium cyanide 1c. higher.
Diacetate, 33-35% acidity, 250-lb. dms., works..lb. .15 - —
l.c.l., works .....lb. .15¾ - —
anhyd., dms., c.l., works....lb. .18 - —
l.c.l., works .....lb. .18¾ - —
Dichromate (see Sodium bichromate).
Ferrocyanide, bgs., 10-ton lots, lb. .13½ - —
smaller lots ..... lb. .14 - —
Fluoride, white, 97%, fib. dms., c.l., works, frt. equald..lb. .1390 - —
l.c.l., works.....lb. .1430 - —
Formate, bgs., c.l., works.....lb. 7.60 - —
l.c.l., works 100 lbs. 8.65 - —
Gentisate, 100-lb. fib. dms....lb. 8.50 - —
Gluconate, refd., dms.....lb. .80 - .83
tech, dms .....lb. .35 - —
Glutamate, mono., dms., c.l....lb. 1.55 - —
Hydride, dms., works.....lb. 1.80 - 3.00
Hydrosulfide (see Sodium sulfhydrate).
Hydrosulfite, dms., c.l., frt. alld, lb. .22 - —
l.c.l., frt. alld.....lb. .22½ - —
Hydroxide, tech. (see soda caustic).
NF, pellets, 100-lb. dms., 1 to 100-dm. lots..lb. .18½ - .23
Hypophosphite, NF, dms., ton-lots or less..lb. .93 - .98
Hyposulfite, NF (see Sodium thiosulfate)
pea crystals, bgs .....100-lbs. 4.50 - —
gran., bgs., c.l., works..100 lbs. 4.75 - 5.00
Hyposulfite, photo grade, bgs., c.l., works..100 lbs. 4.50 - 4.75
l.c.l., works.....100 lbs. 5.00 - 5.05
tech., bgs., works.....100 lbs. 4.50 - —
l.c.l., works .....100 lbs. 4.90 - 6.90
Sodium hyposulfite crystals in bbls., 50c. higher.
Iodide, USP, bots., dms.....lb. 2.55 - 2.62
Lactate, edible, 50%, cbys., dms., works lb. .21½ - —
60% cbys., dms., works...lb. .26½ - —
Lactate, tech., 50%, cbys., dms., works..lb. .16½ - —
Lauryl sulfate, dms., c.l., dlvd..lb. .21 - —
l.c.l., dlvd.....lb. .22 - —
tanks, dlvd.....lb. .18½ - —
Metabisulfite (see Sodium bisulfite).
Metaborate, octahydrate, gran., bgs., c.l., works.....ton.85.00 - —
l.c.l., ex whse .....ton.135.50 -140.50
sodium metaborate octahydrate in bbls, $24.50 per ton higher.
Tetrahydrate, dms., c.l., works, ton.204.00 - —
Metallic bricks, 14,000-lb. lots or more, works..lb. .17 - .19
less than 14,000-lb. lots, works, lb. .175 - .195
tanks, works ..... lb. .16 - —
Metanilate, bbls., frt. alld.....lb. .62 - —
Metasilicate, anhyd., bgs., c.l., works..100 lbs. 5.35 - —
l.c.l., works .....lb. 5.65 - 7.55
dms., c.l. .....100 lbs. 5.75 - —
l.c.l. .....100 lbs. 6.10 - 8.00
Pentahydrate, bgs., c.l., works, 100 lbs. 4.25 - —
l.c.l., works.....100 lbs. 4.60 - 6.50
dms., c.l., works.....100 lbs. 4.75 - —
l.c.l., works.....100 lbs. 5.10 - 7.00
Molybdate, anhyd., dms., dlvd..lb. .88 - —
cryst., dms., works.....lb. .69 - .73
Monohydrate (see Sodium carbonate monohydrated).
Naphthionate bbls..... lb. .70 - —
Nitrate, crude, dom., bgs., c.l., works..ton.47.00 - —
bulk, c.l., works ...ton.43.50 - —
imp., 100-lb. bgs., c.l., Atl. Gulf, Pac., whse....ton.51.25 - —
bulk c.l. same basis..ton.47.75 - —
Nitrite, USP, bbls., c.l., works, frt. equaled ... lb. .08 - —
l.c.l., same basis.....lb. .09½ - —
Orthosilicate, conc., dms., c.l., works..100 lbs. 6.30 - —
l.c.l., works .....100 lbs. 6.65 - 7.25
hydrated, flake, bbls., c.l., works 100 lbs. 5.40 - —
l.c.l., works .....100 lbs. 7.30 - 7.65
Oxalate, 88%, bgs., works..... 100 lbs.10.85 - —
Para-aminobenzoate (see Sodium p-Aminobenzoate).
Para-aminosalicylate (see Sodium p-Aminosalicylate).
Pentachlorophenate, briquets, bgs., c.l., works, frt. equald..lb. .25 - —
l.c.l., same basis.....lb. .26½ - .33
pellets, bgs., c.l. same basis. lb. .25 - —
l.c.l., same basis.....lb. .26½ - .33
Pentachlorophenate, powd., bgs., dms., c.l., same basis..lb. .24 - —
l.c.l., same basis..... lb. .25½ - .32
Pentachlorophenate, 20,000 lbs., min. truckloads, ¼c. per lb. over carlot prices.

Sodium perborate, NF, tech., bgs., c.l., works..lb. .173 - —
l.c.l., works .....lb. .178 - —
Peroxide, dms., c.l., dlvd. E. of Miss..lb. .1860 - —
l.c.l., same basis.....lb. .1910 - .1960
Phenosulfonate, USP IX, gran., dms..lb. .44 - .45
Phosphate, dibasic, anhyd., bgs., c.l., frt. equald...100 lbs. 7.45 - —
l.c.l., works .....100 lbs. 7.85 - —
USP dried powd. bgs., dms., works..lb. .19 - .20½
monobasic anhyd., bgs., c.l., frt. equald..100 lbs. 8.70 - —
l.c.l., frt. equald..100 lbs. 9.10 - 9.70
duohydrate, bgs., c.l., frt. equald..100 lbs. 7.20 - —
l.c.l., frt. equald..100 lbs. 7.60 - 8.20
tribasic, anhyd., bgs., c.l., frt. equald..100 lbs. 8.63 - —
l.c.l., frt. equald..100 lbs. 9.05 - 9.65
cryst., bgs., c.l., t.l., frt. equald..100 lbs. 4.40 - —
l.c.l., frt. equald..100 lbs. 4.80 - 5.40
Sodium phosphates in dms., 60c. higher than bgs.
Prussiate, yellow (see sodium ferrocyanide).
Pyrophosphate, acid, bgs., c.l., works, frt. equald..100 lbs.10.60 - —
l.c.l., works.....100 lbs.11.35 -11.60
ferric, dms., 1,500-lb. lots, works..lb. .38½ - —
smaller lots, works.....lb. .41½ - .43½
tetrabasic, anhyd., bgs., c.l., works, frt. equald..100 lbs. 7.52½ - —
l.c.l., frt. equald....100 lbs. 7.92½ - 8.52½
Salicylate, USP, dms.....lb. .71 - .74
powd., dms.....lb. .47 - .48

Sodium sesquicarbonate, bgs., c.l., works..100 lbs. 2.23 - —
l.c.l., dlvd., zone 1....100 lbs. 4.00 - 4.25
zone 2.....100 lbs. 4.25 - 4.50
zone 3.....100 lbs. 4.65 - 4.80
zone 4 .....100 lbs. 5.25 - 6.50
Sales zones are: (1) All States E. of Miss R. and N of south bound of Ky. and Va.; Ala., La., and Miss., south of 31° Tex E. of 100°; S. of 31° Fla.; also Me., N. H., and Vt., in which there are special county zones; Davenport, Ia. and St. Louis; (2) Ark. E of 98° Ga.; Iowa (except Davenport), Minn., Mo (except St. Louis), Neb., E. of 98° N C., S. C., Tenn. and Tex N. of 31° and E. of 100° (except Wichita Falls); also Ala., La and Miss. No of 31°; (3) Ark. W of 96°, Kan., Neb W of 98°; N. D., Okla., S. D., Tex., W. of 100° (including Wichita Falls, excluding El Paso); (4) Ariz., Colo., Idaho, Mont., Nev., N. M., Utah, Wyo. and El Paso, Tex.
Sesquisilicate, hydrated, bgs., c.l., works..100 lbs. 4.80 - —
l.c.l., works.....100 lbs. 6.40 - 8.50
dms., c.l., works.....100 lbs. 5.20 - —
l.c.l., works.....100 lbs. 7.13 - 7.40
Silicate, liq., 40° Be, 1:3.2, turbid, dms., c.l., works..100 lbs. 1.45 - —
l.c.l., works..100 lbs. 1.80 - 2.30
tanks, works.....100 lbs. 1.10 - —
47° Be, turbid, 1:2.9, dms., c.l., works..100 lbs. 2.10 - —
l.c.l., works.....100 lbs. 2.70 - 2.95
tanks, works.....100 lbs. 1.75 - —

Sodium silicate, 52° Be, turbid, 1:2.4, dms., c.l., works..100 lbs. 2.45 - —
l.c.l., works....100 lbs. 2.80 - 3.30
tanks, works....100 lbs. 2.10 - —
solid, 1:3.2, bgs., works....ton.62.50 - —
Silicofluoride, bgs., c.l., works.lb. .075 - —
l.c.l., works..... lb. .079 - —
Sodium silicofluoride in dms., 0.4c. per lb. higher.
Stannate, dms., works, frt. alld, E lb. .580 - .634
Sulfa drugs (see Sulfa name).
Sulfanilate, bbls., works .....lb. .22 - —
Sulfate, NF, VII, dried, powd., dms lb. .22½ - —
tech., anhyd., bgs., c.l., dlvd, E. ton.52.00 - —
detergent grade, bgs., c.l., works..ton.34.00 - —
rayon grade, bgs., c.l., works, ton.31.00 - —
USP, cryst., fib. dms.....lb. .17½ - .18
gran., fib. dms.....lb. .17½ - .18
Sulfide, flake, dms., c.l., works, E., frt. equald..lb. .05¼ - —
l.c.l., same basis.....lb. .05¾ - —
fused, bbls., c.l., works E., frt. equald..lb. .04¾ - —
l.c.l., same basis.....lb. .05¼ - —
Sulfite, anhyd., bgs., c.l..100 lbs. 3.00 - —
l.c.l., same basis.....100 lbs. 3.50 - —
powd., bbls., c.l., works..100 lbs. 7.25 - —
l.c.l., works..100 lbs. 7.50 - —



Sodium Sulfhydrate—2,4,5-T, Isopropyl Ester

Sodium sulfhydrate, flake, 70-72%, dms., c.l. works lb. .06½- —
i.c.l., works lb. .07 - —
liq., 40-44%, tanks, works, 100% basis ton.115.00 - —
Sulfocyanide CP (see Sodium thiocyanate).
Tetraborate (see Borax).
Tetrasulfide, liq., 40%, dms., c.l., works lb. .03½- —
i.c.l. works lb 04 - —
Thiocyanate, CP dms lb. .55 - .65
tech., anhyd., 1 ton lots or more, works lb. .317 - —
less than ton lot, works lb. .337 - —
Thiosulfate, NF, cryst., bbls lb. .12½- —
tech (see Sodium hyposulphite).
Titanate, ctns., c.l., works lb. .10½- —
5-ton lots, works lb. .10¾- —
1-ton or less, works lb. .11 - —
Toluene sulfonate, dms., c.l., or t.l. lb. .38 - —
i.c.l. lb. 42 - —
Trichloroacetate, 90%, 100-lb. dms., c.l., frt. alld. E lb. .37½- —
i.c.l., frt. adjusted, E lb. .39½- —
50 lb. dms., c.l., frt. alld E. lb. .38 - —
i.c.l., frt. adjusted E lb. .40 - —
10-lb. cns., c.l., frt. alld. E. lb. .44 - —
i.c.l., frt. adjusted E lb. .46 - —

Prices on Sodium trichloroacetate W of the Rockies are 1¾c. per pound higher.

Sodium tripolyphosphate, bgs., c.l., works, frt. equald 100 lbs. 7.87½- —
i.c.l., same basis 100 lbs. 8.27½- 8.87½
Trisilicate, powd., 1:3.2, bgs., c.l., works 100 lbs. 8.65 - —
i.c.l., works 100 lbs. 9.40 9.80
dms., c.l., works 100 lbs. 9.05 —
i.c.l. works 100 lbs. 9.80 -10.20
Tungstate, tech., kgs., dlvd. E lb. 2.15 - —
Sodium-ammonium phosphate, bbls., works, frt. equald lb. .23 - —
Sodium carboxymethyl cellulose(see CMC).
Sodium-cinchophen (see Cinchophen-sodium).
Sodium-formaldehyde sulfoxylate, dms., c.l., dlvd lb. .21 - —
i.c.l., same basis lb. .21½- —
Sodium-zirconyl sulfate, fiber dms., 1,000-lb lots or more works lb. .28 - —
smaller lots, same basis lb. .30 - —
Solvent naphtha, coaltar, high flash, tanks, frt. equald gal. .31 - .35
petroleum (see Petroleum solvent, partial aromatic).
Sorbitan monostearate, fib. dms., 20,000-lb. lots, works lb. .32 - —
10,000 to 20,000-lb. lots, works. lb. .34 - —
smaller lots, works lb. .37 - .39
Sorbitan tristearate, fib. dms., 20,000-lb. lots, works lb. .33 - —
10,000 to 20,000-lb. lots, works. lb. .35 - —
smaller lots, works lb. .38 - .40

Sorbitol, cryst., resin grade, pellets, dms., c.l., works lb. .23 - —
1 to 5-ton lots, works lb. .25 - .26
powd., dms., 1 to 5-ton lots, works lb. .38 - .39
soln., coml., aqueous, dms., c.l., works lb. .24¼- —
ton lots, works lb. .25 - —
smaller lots, works lb. .25¼- —
tanks, works lb. .23¼- —
reg., 70%, aqueous dms., c.l., works lb. .16 - —
ton lots, works lb. .16¾- —
smaller lots, works lb. .17 - —
tanks, works lb. .15 - —
Soybean meal, 44%, bulk, Decatur. ton.48.50 - —
protein, chemically isolated, bgs., c.l., works lb. .23 - —
mechanically refd., bgs., l.c.l., works lb. .066 - —
Sparteine sulfate, cns oz. .80 - .85
Spearmint leaves, dom. bls lb. .75 - —
Spruce extract, liq., reg. tanks, works lb. .01¾- —
powd., super, bgs., c.l., works. lb. .05¼- —
i.c.l. works lb. .05½- —
Squill, white, bls lb. .16 - .18
powd., bbls., bxs lb. .17 - .20
St. John's bread, edible, bls lb. .13 - .15
Stannic chloride, anhyd., dms., works lb. .795 - .805
Oxide, dms., dlvd. E lb. 1.03 - 1.04
Stannous chloride, anhyd., dms., works lb. .921 - 1.190
Hydrous, cryst., dms., works. lb. .80½- .81½
Sulfate, dms., works lb. .976 - .996

Starch, corn, pearl, paper bgs., c.l., 100 lbs. 7.13 - —
t.c.l. 100 lbs. 7.28 - —
powd., paper bgs., c.l. 100 lbs. 7.25 - —
t.c.l. 100 lbs. 7.40 - —
Prices for corn starch in cotton bags, 25c. per 100 lbs. higher.
Potato, dom., Idaho, bgs., c.l., works lb. .06 - —
Maine, bgs., c.l., works lb. .05¾- —
ex wnse, N. Y. lb. .08 - .08¾
Rice, bgs., t.c.l. lb. .15½- .16
Wheat, bgs. lb. .08½- .09
Star root (see Helonias root).
Stargrass Root (see Aletris root).
Stavesacre seed, bgs lb. .60 - .61
Stearine oleo (see Oleostearine).
Stramonium leaves, bgs lb. .18 - .20
Streptomycin hydrochloride, bulk, gram. .063 - .07
Strontium bromide, NF, cns., dms. lb. .75 - .84
Carbonate, pure, dms., 5-ton lots or more, works lb. .35 - —
1-ton lots, works lb. .37 - —
tech., dms., works lb. .19 - —
Chromate, bbls., works lb. .46 - —
Iodide, jars, 25-lb. lots lb. 3.42 - —
Nitrate, bbls., c.l., works 100 lbs. 11.00 - —
t.c.l., works 100 lbs. 12.00 - —
Salicylate, NF, dms lb. 1.75 - —
Sulfate, air floated, 90%, 325 mesh, bgs., works ton.56.70 -66.15
Strophanthin, K, bots oz. 25.00 -25.50
G. (see Ouabain, USP).
Strophanthus seed, Kombi, biologically tested, bxs lb. 3.50 - 3.75
Strychnine, NF powd. cns., 100-oz. lots oz. 1.10 - —
Phosphate, NF, cns., 100-oz. lots oz. 1.14 - —
Sulfate USP, cryst., cns., 25-oz. lots oz. .96 - —
powd., 100-oz. lots oz. .85 - —
Styrax, USP, cs lb .78 - .80
Styrene monomer, polymer grade, 99½%, dms., c.l., frt. alld. lb. .22½- —
t.c.l., same basis lb. .23½- —
tanks, same basis lb. .20½- —
synthetic rubber grade, 99%, dms., c.l., frt. alld lb. .18½- —
t.c.l., same basis lb. .19½- —
tanks, same basis lb. .16½- —
Styrolyl acetate, bots lb. 1.45 - 1.70
Sucrose, crude, bgs., dlvd., N. Y. lb. .0555- —
refd., white, bgs., refy., E lb. .0855- —
Octa-acetate, denaturing grade, 100-200-lbs., bgs., l.c.l., works lb. .76 - —
Sugar (see Sucrose, crude, refined).
Sulfabenzamide, dms lb. 4.00 - 4.50
Sodium, dms lb. 4.10 - 4.60
Sulfacetamide, fib. dms lb. 4.00 - 4.20
Sodium fib. dms lb. 5.00 - 5.20
Sulfadiazine, USP, microcrystals, dms lb. 10.60 -11.10
powd., dms lb. 10.25 -10.75
Sulfadiazine-sodium, USP, dms lb. 11.25 -11.75
microcrystals, dms. lb. 11.60 -12.10
Sulfaguanidine, USP dms lb. 2.50 - —
Sulfamerazine, USP, microcrystals. lb. 10.65 -11.15
Sulfamerazine-sodium, USP, dms., lb. 11.25 -11.75
Sulfamethazine, microcrystals, dms., lb. 8.90 - 9.40
powd., dms lb. 8.50 - 9.00
Sulfanilamide, USP, 30-80 mesh., dms lb. 1.40 - 1.60
microcrystals, dms. lb. 1.70 - 1.90
powd., dms lb. 1.30 - 1.50
Quinoxaline, veterinary, dms lb. 6.40 - 6.75
Sulfapyridine, NF powd., bots, tins, lb. 7.00 - 7.50
Sulfapyridine-sodium, monohydrate, dms lb. 7.50 - 8.00
Sulfathiazole, USP, microcrystals, dms lb. 2.85 - 3.00
powd., dms lb. 2.50 - 2.65
Sulfathiazole-sodium, USP, dms lb. 2.75 - 2.90
Sulfur, coml., flour, bgs., mines 100 lbs. 2.30 - —
bbls., mines 100 lbs. 3.05 - —
lump, bgs., mines 100 lbs. 2.20 - —
bbls., mines 100 lbs. 2.65 - —
crude, bulk, c.l., mines, contract. long-ton.26.50 - —
export, f.o.b. vessels, Gulf ports long-ton.28.00 -31.00
domestic and Canada, f.o.b. vessel Gulf port long-ton.28.00 - —
refd., flowers, USP, bgs., mines. 100 lbs. 4.00 - —
bbls. 100 lbs. 5.25 - —
flour, light, bgs., mines 100 lbs. 3.60 - —
bbls., mines 100 lbs. 4.50 - —
lump, bgs., mines 100 lbs. 3.30 - —
rolls, bgs., mines 100 lbs. 3.85 - —
bbls., mines 100 lbs. 4.40 - —
salt block, bgs., mines 100 lbs. 3.50 - —
virgin block, bbls., mines. 100 lbs. 3.45 - —
rubbermakers, coml., reg., bgs., mines 100 lbs. 2.40 - —
bbls., mines 100 lbs. 3.55 - —
98-100% passing through 325 mesh, bgs., mines 100 lbs. 2.50 - —
bbls., mines 100 lbs. 3.65 - —
refd., bgs., mines 100 lbs. 3.25 - —
bbls. mines 100 lbs. 4.30 - —
treated, 2.5% mineral oil, bgs., mines 100 lbs. 2.70 - —
bbls., mines 100 lbs. 3.85 - —
10% pine tar, bgs., mines. 100 lbs. 3.90 - —
Dichloride, dms., c.l., works, frt. equald lb. .04 - —
l.c.l. same basis lb. .04¾- —
tanks, same basis lb. .03¾- —
Dioxide, liq., coml., cyls., works, frt. equald lb. .10 - .12
multi unit cars, works lb. .0535- —
tanks, works lb. .045 - —
refrigeration, 150-lb. cyls., dlvd lb. .30 - —
Monochloride, 55-gal., dms., c.l., frt. equald lb. .04 - —
l.c.l., same basis lb. .04¾- —
tanks, same basis lb. .03¾- —
Sumac leaves, 28%, bgs., ex-dock, ton.132.00 - —
ground, bgs., ex-dock ton.127.00 - —
Superphosphate, run-of-pile, under 22% a.p.a. pulv., bulk, c.l., Balto., unit-ton. .88 - .91
Carteret, N. J. unit-ton. .88 - .91
triple, 48% or more, a.p.a., pulv., bulk, c.l., East Tampa, Fla. unit-ton. .98 - —

T

2,4,5-T, dms., c.l., works, frt. equald. lb. 1.18 - —
l.c.l., same basis lb. 1.25 - —
Isopropyl ester, dms., c.l., works, frt. equald lb. 1.24 - —
l.c.l., works lb. 1.29 - —

THESE SILOS FEED INDUSTRIAL NEEDS

Fodder for virtually every industry—in huge amounts for many, down to laboratory quantities for others—is contained in these storage bins, known to the trade as silos. Unlike their counterparts in agriculture, which store against the winter season, the turnover of their contents is relatively constant. For these silos hold Soda Ash—historically the oldest of all major industrial chemicals in use today.

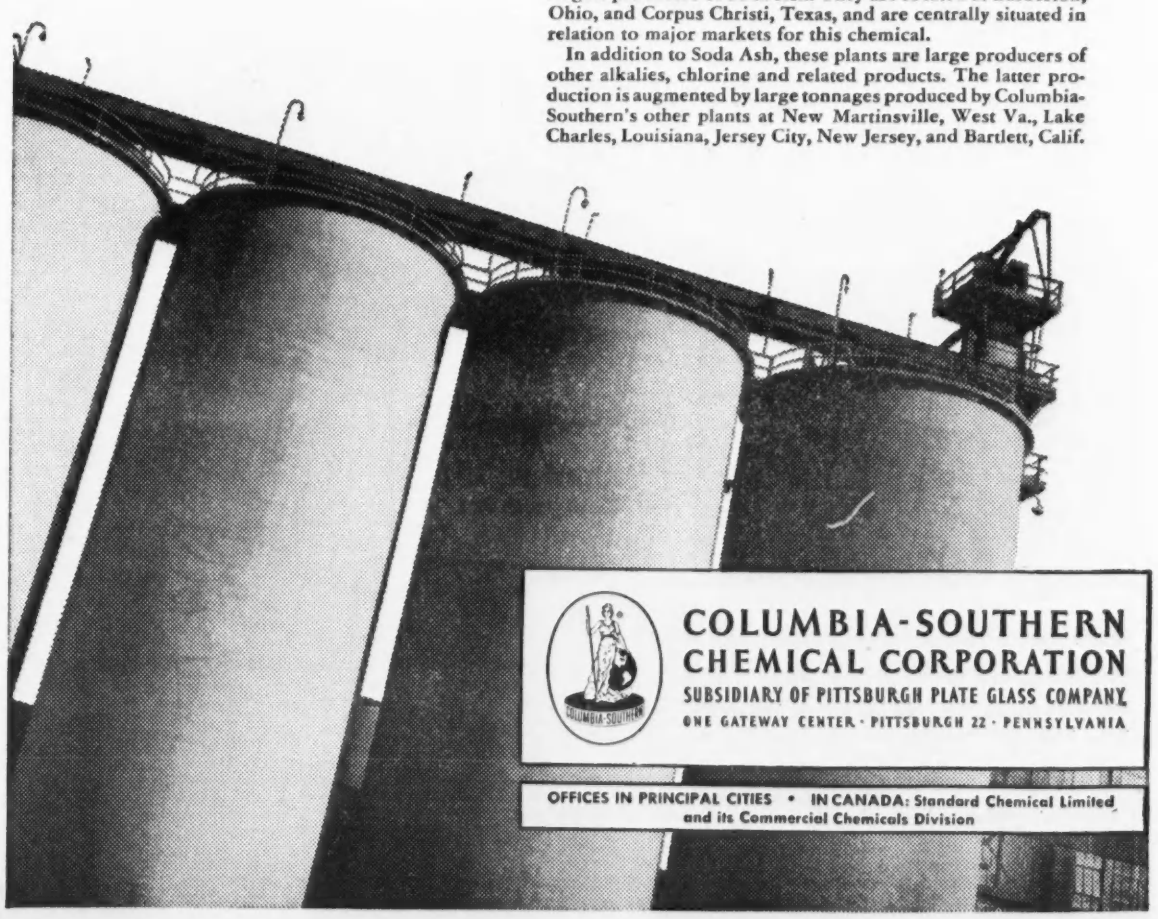
So varied and essential are the uses of Soda Ash that its consumption is a very accurate index of national commercial prosperity. Soda Ash is a basic ingredient of glass, which represents the largest single use, being surpassed only by the aggregate requirements for the production of other chemicals. Other major industrial uses include soap, cleansers and detergents, pulp and paper, textiles, metal refining, water treatment and petroleum refining.

Columbia-Southern's production of Soda Ash dates from its first operations in 1899. Through constant expansion, it has maintained its position as one of the nation's leading producers of Soda Ash and other alkalies—and a reliable source of supply for all industry.

COLUMBIA-SOUTHERN PRODUCES SODA ASH IN LARGE VOLUME AT TWO LOCATIONS

Two of Columbia-Southern's six plants are among the nation's largest producers of Soda Ash. They are located at Barberton, Ohio, and Corpus Christi, Texas, and are centrally situated in relation to major markets for this chemical.

In addition to Soda Ash, these plants are large producers of other alkalies, chlorine and related products. The latter production is augmented by large tonnages produced by Columbia-Southern's other plants at New Martinsville, West Va., Lake Charles, Louisiana, Jersey City, New Jersey, and Bartlett, Calif.



COLUMBIA-SOUTHERN CHEMICAL CORPORATION
SUBSIDIARY OF PITTSBURGH PLATE GLASS COMPANY
ONE GATEWAY CENTER · PITTSBURGH 22 · PENNSYLVANIA

OFFICES IN PRINCIPAL CITIES • IN CANADA: Standard Chemical Limited and its Commercial Chemicals Division

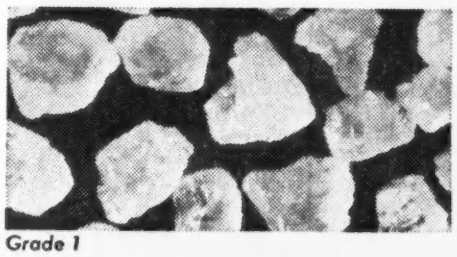
Talc, dom., ord., Calif., grd., bgs., c.l., works ton 32.00 -38.50
Vermont off color grd., bgs., c.l., works ton 18.40 - —
l.c.l., works ton 36.00 - —
fibrous, New York, grd., bgs., c.l., works ton 27.00 - —
l.c.l., works ton 30.00 -35.00
99.5%, 325 mesh, bgs., c.l., works ton 30.00 - —
l.c.l., works ton 33.00 - —
99.95% micronized, bgs., works ton 37.00 - —
Imp., Canadian, grd., bgs., c.l., mines ton 20.00 35.00
Tallow, edible, tanks, dlvd lb. .09 - .09¼
inedible, extra, tanks, dlvd lb. .07⅛- —
fancy, bleachable, tanks, dlvd., lb. .07¾- —
guaranteed, dms., f.a.s. lb. .09⅛- —
No. 1, tanks, dlvd lb. .06⅞- —
special tanks, dlvd lb. .07 - —
sulfonated, 25%, bbls., l.c.l. lb. .08¾- .09
50%, bbls., l.c.l. lb. .09¾- .10¼
Tankage, animal, teeding, 9-11% ammonia, bulk unit-ton 4.00 - —
Chicago, bulk unit-ton 5.00 - —
Tapioca flour, Brazilian, bgs., ex whse lb. .07¾- .08¼
Siamese, top grade, bgs., ex whse lb. .07½- .07¾
Tar acid oil, 15-18%, dms., c.l., frt. equald gal. .47 - .49
l.c.l., same basis gal. .50 - .51
tanks, same basis gal. .39 - —
25-28%, dms., c.l., same basis, gal. .54 - .56
l.c.l., same basis gal. .57 - .58
tanks, same basis gal. .45 - —
50-53%, dms., c.l., same basis, gal. .70 - .72½
l.c.l., same basis gal. .73½- .74½
tanks, same basis gal. .62½- —
Coal (see Coaltar)
Tartar, emetic (see Antimony-potassium tartrate).
Terpine glycol ether, dms., c.l., works lb. .23½- —
l.c.l., works lb. .25½- —
tanks, works lb. .22 - —
Hydrate, NF, cryst., powd., fib. dms lb. .67½- .74
Terpineol, dms., l.c.l, dlvd. E lb. .20¾- —
extra, dms lb. .41 - .60
prime, dms lb. .30 - .45
Terpinyl acetate, extra, cns., dms. lb. .60 - .75
prime, dms lb. .55 - .70
Propionate, dms lb. 1.75 - 2.00
Terra alba (see Gypsum).
Testosterone, USP, 100-gm. lots, bots gram .70 - —
Propionate, USP, 100-gm. lots, bots gram .68 - —
Tetrachloroethane, dms., works lb. .14½- —
Tetrasodium pyrophosphate (see Sodium pyrophosphate).
Tetrachloroethylene, tech (see Perchloroethylene).
USP 55 gal. dms., works lb. .20½- .21¼
smaller dms., works lb. .23½- .25
Tetraethyl orthosilicate, dms., c.l., dlvd. E lb. .61½- —
l.c.l., dlvd. E lb. .62½- —
Pyrophosphate, 40%, cns., dms., frt. equald lb. .75 - —
Tetraethylenepentamine, dms., c.l., dlvd. E lb. .49 - —
l.c.l., dlvd. E lb. .50 - —
tanks, dlvd. E lb. .47 - —
Tetrahydrofuran, dms., c.l., or t.l., works lb. .36½- —
l.c.l., or l.t.l., works lb. .37 - —
tanks, works lb. .35 - —
Tetrapotassium phosphate (see Potassium phosphate).
Thallium metal, dlvd lb. 12.50 -15.00
Sulfate, 99%, bots., dlvd lb. 8.00 -13.00
Theobromine, NF, fib. dms lb. 3.25 - —
And sodium acetate, USP, fib. dms lb. 4.00 - —
Sodio-Salicylate, NF, fib. dms lb. 3.30 - —
Theophylline, anyhd. or USP, 100-lb. dms lb. 3.65 - —
Thiamine hydrochloride, USP, regular or ampul-type, fib. dms. lar fib. dms. kilo. 60.00 - —
Ampule grade kilo. 62.00 - —
Mononitrate, USP, fib. dms kilo. 62.00 - —
Thiocarbanilide, dms., ton lots lb. .72 - —
less tons lots lb. .74 - —
Thiodiphenylamine (see Phenothiazine).
Thiourea, tech., dms., c.l., frt. alld, lb. .36 - —
l.c.l., works lb. .38 - —
Thorium nitrate, purif., fib. dms., 100-lb. lots or more, works lb. 3.50 - —
dl-Threonine, bots., 1-kilo lots, kilo. 450.00 -500.00
Thyme leaves, French, bgs. lb. .19 - .22½
Spanish, bgs. lb. .09 - —
Thymol, fib. dms lb. 2.23 - 2.35
Iodide, NF, dms lb. 7.30 - —
Timbo root (see Cube root)
Tin chloride (see Stannous chloride, anhydrous).
crystals (see Stannous chloride, hydrous)
Metal (Straits) lb. 1.01 - —
Oxide (see Stannic oxide).
Sulfate (see Stannous sulfate).
Tetrachloride anhyd. (see Stannic chloride, anhydrous).
Titanium dioxide anatase, chalk-resistant, bgs., c.l., dlvd lb. .24½- —
l.c.l., dlvd lb. .25½- —
ceramic, bgs., c.l., dlvd lb. .22½- —
l.c.l., dlvd. lb. .23½- —
reg., bgs., c.l., dlvd lb. .22½- —
l.c.l., dlvd lb. .23½- —
metallurgical, nat., gran., bgs., c.l., f.o.b. Jacksonville, Fla. ton 120.00 - —
Niagara Falls, N. Y., c.l., ton 137.50 - —
5-ton lots ton 142.50 - —
ton lots ton 147.50 - —
rutile, nonchalking, bgs., c.l., dlvd. E lb. .26½- —
l.c.l., dlvd E lb. .27½- —
Milled titanium dioxide $7.50 per ton higher.
Hydride, cns., works lb. 7.95 - 9.00
Pigment, calcium-rutile base, reg., bgs., c.l., dlvd lb. .09¼- —
l.c.l., works lb. .09⅝- —
high-tinting, dms., c.l. lb. .09 - —
l.c.l. lb. .09½- —
Tetrachloride, tech., dms., c.l., works lb. .40¾- —
l.c.l. works lb. .43¾- —
tanks, works lb. .39¾- —
dl-a-Tocopherol, bots kilo. 149.65 - —
Acetate kilo. 136.00 - —
d-a-Tocopherol acetate kilo. 185.00 - —
d-a-Tocopherol acid succinate kilo. 165.00 - —
o-Tolidine base, dry or paste, 100% basis, kgs lb. 1.40 - —
Hydrochloride, paste, 100% basis, lb. 1.35 - —
Tolu balsam, cns lb 4.25 - 4.50
Toluene (see Toluol).
p-Toluenesulfonamide, powd., dms., works lb. .70 - —
m-Toluidine dms., c.l., works, frt. alld lb. .79 - —
l.c.l. same basis lb. .80 - —
tanks, same basis lb. .78 - —

o-Toluidine, dms., c.l., works, frt. alld lb. .23 - —
l.c.l., same basis lb. .24 - —
tanks, same basis lb. .22 - —
p-Toluidine, flake, dms., frt. alld lb. .64 - —
solid, dms., frt. alld. lb. .60 - .61
Toluol, coaltar, indust. or nitration, tanks, works:—
Bethlehem, Pa. gal. .34 - —
Birmingham dist. gal. .32 - —
Chicago, dist. gal. .32 - —
Cleveland dist. gal. .32 - —
Geneva, Utah gal. .26 - —
Johnstown, Pa. gal. .32 - —
Lackawanna, N. Y. gal. .35 - —
Lone Star, Tex. gal. .33 - —
Lorain, Ohio gal. .32 - —
Middletown, Ohio gal. .33½- —
Minnequa, Colo. gal. .32 - —
Philadelphia dist. gal. .34 - —
Pittsburgh dist. gal. .32 - —
Sparrows Point Md. gal. .34 - —
Terre Haute, Ind gal. .35 - —
Youngstown, Ohio gal. .32 - —
Toluol, coaltar, petroleum, indust., 2°, tanks, works:—Albany, N.Y. gal. .35 - —
Bayonne, N. J. gal. .34 - —
Baytown, Tex. gal. .33 - —
Chicago, Ill. gal. .35 - —
Detroit, Mich gal. .35 - —
Houston, Tex. gal. .33 - —
Philadelphia, Pa. gal. .34 - —
Providence, R. I. gal. .35 - —
Wood River, Ill. gal. .25 - —
2,4-Tolylenediamine, cryst., fib. dms., c.l., frt. alld lb. .97 - —
l.c.l., frt. alld lb. 1.00 - —
powd., fib. dms., same basis lb. 1.00 - —
Tonka beans, Angostura, cks. lb. 1.65 - 1.80
Brazilian, Surinam, cs. lb. 1.00 - 1.25
Totaquine, 100-oz. lots, cns. oz. .42 - —

Toxaphene, dms., c.l., t.l., works lb. .20 - —
l.c.l., l.t.l., works lb. .26 - —
Triacetin, dms., c.l., dlvd. E. of Rockies lb. .39 - —
l.c.l., same basis lb. .40 - —
tanks, same basis lb. .37 - —
Tributyl citrate, tech., non-ret. dms., c.l., frt. alld. E. of Denver lb. .42 - —
l.c.l., frt. alld. E. of Denver, lb. .43 - —
tanks, frt. alld. E. of Denver, lb. .40 - —
Phosphate, dms., c.l., works lb. .52 - —
l.c.l., same basis lb. .53 - —
tanks, same basis lb. .50 - —
Tributylamine, cms., c.l., works lb. .67 - —
l.c.l., same basis lb. .68 - —
tanks, same basis lb. .65 - —
Trichlorobenzene, dms., c.l., frt. alld. E lb. .14½- —
l.c.l., frt. alld. E lb. .15½- —
tanks, frt. alld. E lb. .13 - —
Prices in the West 1¾c. higher.
Trichloroethylene, dms., c.l., or t.l., works, frt. equald lb. .11¾- —
l.c.l., dlvd. E lb. .13¾- —
tanks, works, frt. equald lb. .10¾- —
1,1,1-Trichloroethane, dms., c.l., works lb. .14 - —
works lb. .13½- —
l.c.l., works lb. .16¼- —
tanks, works lb. .12½- —
Tricholine citrate, 65% soln., ret. cbys., works, frt. adjusted lb. 1.40 - 1.45

Tricresyl phosphate, coaltar, dms., c.l., dlvd lb. .36½- —
l.c.l., dlvd lb. .37½- —
tanks, dlvd lb. .34½- —
petroleum, dms., c.l., dlvd lb. .36½- —
l.c.l., dlvd lb. .37½- —
tanks, dlvd. lb. .34½- —
Triethanolamine, dms., c.l., dlvd. E lb. .24 - —
l.c.l., same basis lb. .25 - —
tanks, same basis lb. .22 - —
Triethylamine, dms., c.l., works, dlvd. E lb. .47 - —
tanks, same basis lb. .45 - —
Triethyl citrate, refd., tech., non-ret. dms., c.l., frt. alld. E. of Denver lb. .45¾- —
l.c.l., frt. alld. E. of Denver, lb. .46¾- —
tanks, frt. alld. E. of Denver, lb. .43¾- —
Phosphate, dms., c.l., dlvd lb. .40 - —
l.c.l., dlvd. lb. .41 - —
tanks, same basis lb. .38 - —
Triethylene glycol, dms., c.l., dlvd. E lb. .20½- —
l.c.l., same basis lb. .21½- —
tanks, same basis lb. .18½- —
Triethylenetetramine, dms., c.l., dlvd. E lb. .49 - —
l.c.l., dlvd. E lb. .50 - —
tanks, dlvd. E lb. .47 - —

To Meet Your Requirements—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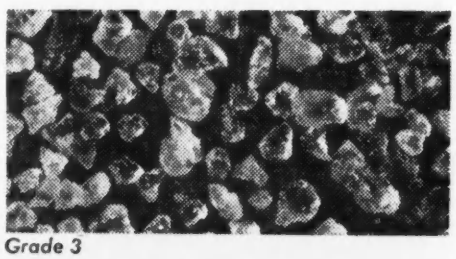
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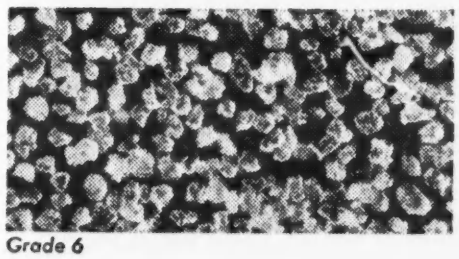
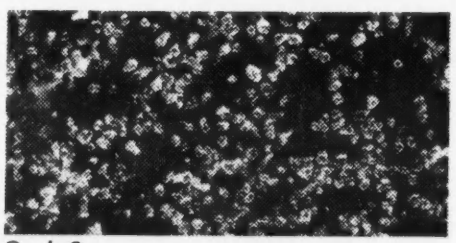

Grade 6


Grade 9

Specify SOLVAY®
PARA-DICHLOROBENZENE

- Superior Quality
- Exceptional Purity
- Uniform Granulation
- Good Color and Appearance
- Free-Flowing Crystals
- The Choice for Repacking, Compounding, Block-Making
- Available in 4 grades

SOLVAY

Potassium Carbonate • Calcium Chloride • Sodium Bicarbonate • Soda Ash
Hydrogen Peroxide • Snowflake® Crystals • Chloroform • Chlorine
Ammonium Bicarbonate • Cleaning Compounds • Caustic Potash
Sodium Nitrite • Ammonium Chloride • Methylene Chloride
Ortho-dichlorobenzene • Carbon Tetrachloride • Methyl Chloride
Caustic Soda • Monochlorobenzene • Para-dichlorobenzene

Mail Coupon Today for Test Samples

Allied Chemical

SOLVAY PROCESS DIVISION
Allied Chemical & Dye Corporation
61 Broadway, New York 6, N. Y.

Gentlemen: Please send me at no cost or obligation: SAMPLE(S) OF SOLVAY PARA in the following granulations:

NAME _____
COMPANY _____ POSITION _____
ADDRESS _____
CITY _____ ZONE ____ STATE _____ DU-3

Tri-Isopropanolamine—Wax, Paraffin

Tri-isopropanolamine, dms., c.l., dlvd. E. lb. .22¾- —
l.c.l., dlvd. E lb. .23¾- —
tanks, dlvd. E lb. .20¾- —
Trimethylamine 25-40% soln., dms., c.l., works, frt. equald., 100% basis lb. .42 • —
l.c.l., works, frt. equald, 100% basis lb. .42½- —
tanks, works, frt. equald, 100% basis lb .33 • —
Trioxane, pure, dms., c.l., t.l., dlvd. E lb. .50 • —
l.c.l., dms., dlvd. E lb. .51½- —
Tripentaerythritol, bgs., l.c.l., works. lb. .35 • —
Triphenyl phosphate, bbls., c.l., frt. equald lb. .40 • —
l.c.l., frt. equald lb. .41 • —
Triphenylguanidine, bbls., works lb. .90 • —
Tripropylene glycol, dms., c.l., frt. alld E lb. .20½- —
l.c.l., frt. alld. E lb. .21½- —
Prices 1c. per lb. higher in West.
Trisodium fluoroacetate (see Sodium fluoroacetate, tribasic).
Phosphate (see Sodium phosphate tribasic).
dl-Tryptophane, fib. ctns., works. kilo.165.00 • —
Tungsten metal powd., 98.8%, dms., dlvd. lb. 4.50 • —
Turpentine, gum (see Protective Coatings market, Naval Stores).
Tyrothricin, USP, bots. gram. .75 • .85

U

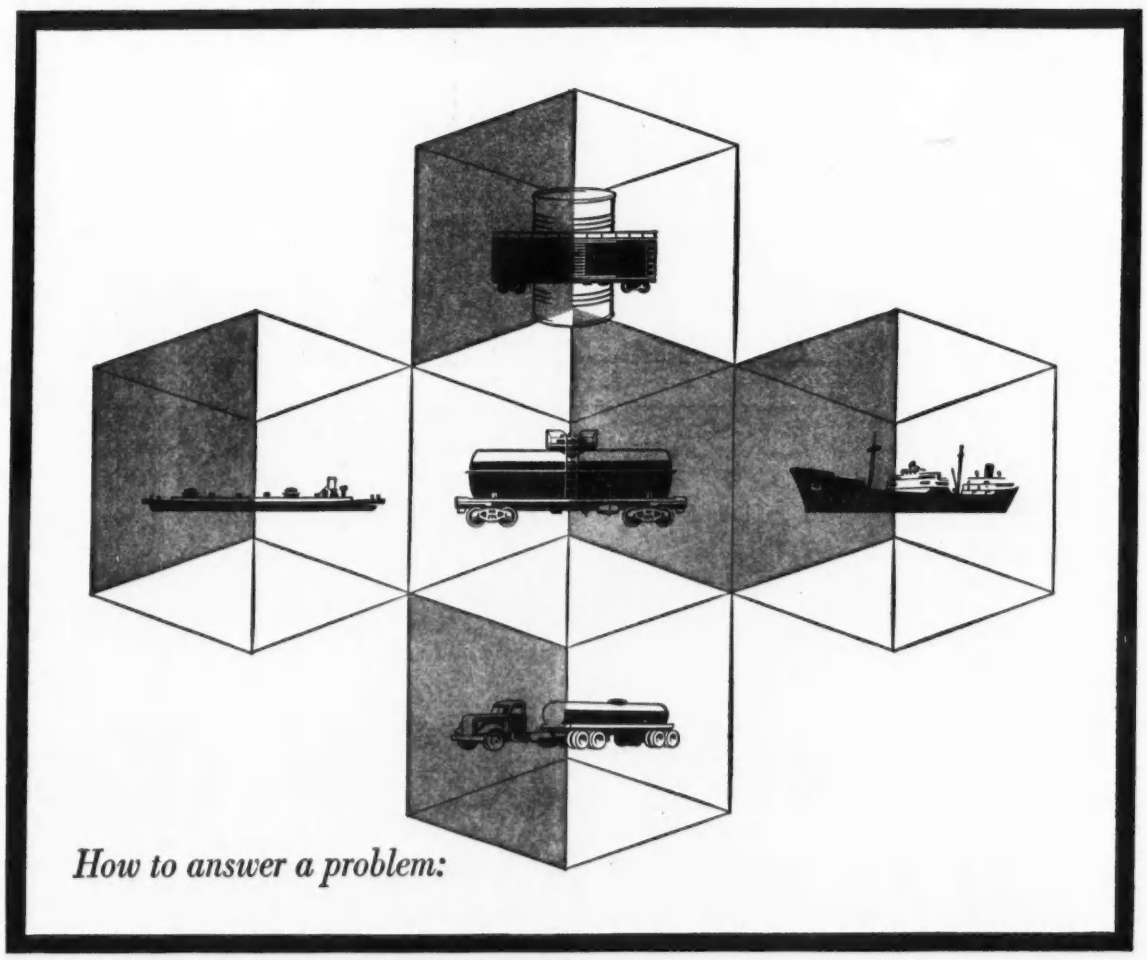
Unicorn root, false (see Helonias root).
True (see Aletris root).
Urea, 46% N, indust., bgs., c.l., t.l., dlvd. E ton.120.00 • —
l.c.l., dlvd. E, ex whse ton.140.00 • —
45% N, agricultural, bgs., c.l., (30 tons), dlvd., E ton.105.00 • —
Urea-ammonia liquor, A and B grades, N basis, tankcars, Belle, W. Va ton.126.00 • —
C grade, tankcars, same basis. ton.124.50 • —
37 grade tankcars, same basis. ton.153.00 • —
Urethane, USP, dms. lb. 1.50 • —
Uva-ursi leaves, bls. lb. .12 • .14

V

Valerian root, Belgian, bgs. lb. .38 • .40
dl-Valine, dms., works lb.21.00 • 27.50
Valonia beards, 40-42% tannin, bgs., exdock ton.77.00 • 78.00
cups, 28-30% tannin, bgs., exdock ton.56.00 • 57.00
extract, powd., 63% tannin, bgs., ex-dock, duty extra lb. .08¾- —
Vanadium pentoxide, tech., dms., works lb. 1.28 • 1.33
Vanilla beans, Bourbon, tins. lb. 6.00 • 6.50
Mexican, cuts, tins. lb. 6.75 • 7.00
whole, tins lb. 7.50 • 8.00
Tahiti, cs. lb. 6.00 Nom.
Vanillin, ex eugenol, tins, 25-lb. lots. lb. 6.50 • 6.75
smaller lots lb. 6.90 • 7.25
ex lignin, dms., 25-lb. lots lb. 3.00 • —
smaller lots lb. 3.05 • 3.15
Vinyl acetate monomer, 55-gal. dms., c.l., dlvd. E lb. .18½- —
l.c.l., dlvd. E lb. .19½- —
tankcars, dlvd. E lb. .16½- —
tanktrucks, less than 4,000 gal., dlvd. E lb. .17½- —
n-Butyl ether, tech., dms., c.l., works lb. .28 • —
l.c.l., works lb. .30 • —
tanks, works lb. .27 • —
Chloride monomer, tanks, works. lb. .11 • —
Ether, USP, anasthesia, bots., 50 c.c., hospitals, bot 1.12 • —
75 c.c. bot. 1.56 • —
tech., dms., c.l., works lb. .26 • —
l.c.l., works lb. .28 • —
tanks, works lb. .25 • —
Isobutyl ether, tech., dms., c.l., works lb. .28 • —
l.c.l., works lb. .30 • —
tanks, works lb. .27 • —
Methyl ether, cyls., works lb. .23 • —
tanks, works lb. .20 • —
Cylinders are sold outright, or if shipped against deposit, a free period of 60 days is allowed; and if empties are returned prepaid and in good condition within that period, full refund is made.
Trichloride (see Trichloroethane).
2-Vinylpyridine, 10 dms. to tanks, works lb. 1.40 • —
1 to 9 dms, works lb. 1.50 • —
tanks, works lb. 1.38 • —
Vinyltoluene, dms., c.l., frt. alld lb. .18½- —
l.c.l., frt. alld lb. .19½- —
tasks, frt. ald lb. .16½- —
Viosterol, in alcohol, 1,000,000 D units per gram, bots., lots of 10 billion USP units, 1,000,000 units. .025 • —
lots of 1 billion USP units, 1,000,000 units. .03 • —
lots of less than 1 billion USP units 1,000,000 units. .035 • —
in nat., vegetable oil, 400,000 to 1,000,000 D units per gram, bots., lots of 10 billion USP units 1,000,000 units. .02 • .04¾
lots of 1 billion USP units, 1,000,000 units. .025 • .05¼
lots of less than 1 billion USP units, 1,000,000 units. .03 • .05¾
Vitamin A acetate, syn., crystalline, beads, 500,000 A units per gram gram. .07¼- —
dry, 500,000 units per gram kilo lots kilo.67.50 • —
325,000 units per gram, same basis kilo.43.88 • —
250,000 units per gram, same basis kilo.33.75 • —
Dry vitamin A acetate in less than kilo lots, $2.50 per kilo higher in all potencies.
liq., in oil, 1,000,000 A units per gram 1,000,000 units. .10 • —
Palmitate, liq., 1,000,000-1,800,000 A units per gram 1,000,000 units. .10 • —
in oil, 1,000,000 A units per gram 1,000,000 units. .10 • —
B_1 (see Thiamine hydrochloride).
B_2 (see Riboflavin).
B_6 complex, natural (see Rice bran concentrate and Yeast).
B_{12}, crystalline, 1-gram or 5-gram vials gram.245.00 • —
oral grade solids, in containers of 1 and 5 grams of B_{12} activity gram.185.00 • —
C (see Acid, ascorbic).
D (see Oils, codliver and fish-liver, Calciferol, and Viosterol).
D_2, dry, 850,000 units per gram, kilo lots kilo.42.50 • —
less than kilo lots kilo.45.00 • —
E (see a-Tocopherol and Oil, wheat germ).
G (see Riboflavin).
H (see Biotin).
K, Active (see Menadione).
K_1, 25 gram bots. gram. 4.50 • —
Violet methyl toner (see Blue methylviolet toner).
V.M.&P. naphtha (see Petroleum naphtha).

W

Wahoo root, bark, bls. lb. 2.25 • —
Warfarin, 0.5%, dms., 50-lb. lots, dlvd lb. 1.95 • —
25-49-lb. lots, N. Y. or Chicago. lb. 2.05 • —
5-24-lb. lots, cns., N. Y. or Chicago lb. 2.15 • —
Wattle bark, fair average, African, bales, ex dock ton.99.00 • —
merchantable, bales, ex dock.ton.96.00 • —
extract, liq., 35% tannin, bbls lb. .09¾- .10
solid, E. Africa, 60% tannin, bgs., ex dock, duty extra lb. .09¾- —
S. Africa, 60% tannin, bgs., ex dock, duty extra lb. .10 • —
Wax, amorph. (see Wax micro crystalline).
Bees, crude, African, bgs. lb. .68 • .70
Brazilian, bgs. lb. .70 Nom.
Central American, bgs. lb. .68 • .70
Chilean, bgs. lb. .70 Nom
refd., USP, bleached, white bricks, 100-lb. ctns lb. .80 • .82
slabs, 100-lb. ctns lb. .79 • .81
yellow bricks, 100-lb. ctns. lb. .73 • .75
slabs, 100-lb. ctns lb. .72 • .74
Candelilla, crude, bgs. lb. .55 • .57
refd., bgs. lb. .58 • .60
Powdered candelilla, 20 mesh, 7c. per lb. higher, 80 mesh, 7c.; 100-200 mesh, 8c.
Carnauba, chalky, bgs., ton tots. lb. .57 • .59
North country No. 2, bgs., ton lots lb. .65 Nom.
pure refd., bgs., ton lots. lb. .71 • .73
No. 3, Ceara, crude, bgs., ton lots lb. .58 • .60
refd., pure, bgs., ton lots lb. .65 • .66
tech., bgs., ton lots lb. .61 • .62
Parnahyba, crude, bgs., ton lots lb. .59 • .61
refd., pure, bgs., ton lots lb. .67 • .68
yellow No. 1, Ceara, bgs., ton lots lb. 1.08 • 1.10
Parnahyba, bgs., ton lots lb. 1.10 • 1.12
Powdered carnauba wax price differentials same as powdered candelilla.
Japan, cs. lb. .47 • .48
Microcrystalline, 170-175°F., m.p. ASTM, penetration 15-20 ctns., 20,000 lbs., group 3, works. lb. .14 • .15
smaller lots, same basis. lb. .15 • .16
black, ctns., 20,000 lbs., same basis lb. .12½- .13¼
smaller lots, same basis. lb. .13½- .14¼
white, ctns., 20,000 lbs., same basis lb. .25 • .26
smaller lots, group 3, works lb. .26 • .27
180°-185°F. m.p., ASTM, penetration, 7-11; amber, ctns., 20,000-lb. lots, same basis. lb. .17 • —
smaller lots, same basis. lb. .18 • —
black, ctns., 20,000 lbs., same basis lb. .15½- —
smaller lots, same basis. lb. .16½- —
white, ctns., 20,000 lbs., same basis lb. .28 • —
smaller lots, same basis. lb. .29 • —
100°-195°F., m.p., ASTM, penetration 2-7, amber, ctns., 20,000 lbs., same basis lb. .21 • —
smaller lots, same basis lb. .21½- —
black, ctns., 20,000 lbs., same basis lb. .19 • —
smaller lots, same basis. lb. .19½- —
white, ctns, 20,000 lbs., same basis lb. .34½- —
smaller lots, same basis. lb. .35½- —
Montan, dom., refd., bgs. lb. .27 Nom.
imp., crude, Bohemian, bgs lb. No prices.
German, bgs. lb. No prices.
Ouricury, refd., pure, bgs. lb. .77 • .79
tech., bgs. lb. .74 • .76
Paraffin (see P).



How to answer a problem:

there's *no illusion* to what you get when your CAUSTIC comes from DOW

DISTRIBUTION FACILITIES
AND SERVICES "PACKAGED"
FOR YOUR OPERATIONS

There's one simple, across-the-board answer to any caustic soda problem you might have: *Get it from Dow!* Dow has the *form* you need: ground flake, flake, solid, 50% or 73% solution. Dow *makes delivery* by the most economical "package": tank car, tank truck, barge or ocean tanker.

Dow's Alkali Sales Department will gladly look into the economics of *your* caustic use . . . and may well be able to point out surprising *savings*. So many services are yours—*dependably* yours—when you deal with Dow. THE DOW CHEMICAL COMPANY, Dept. AL360A-1, Midland, Michigan.

you can depend on DOW CHEMICALS DOW

Wax, spermaceti, blocks, cs..... lb. .30 - .33
cakes cs..... lb. .31 - .34
Sugar cane, dom., refd., slabs, 80 lbs. ctns., works lb. .65 - .75
spot..... lb. .67½- .72½
White lead (see Lead, White).
White pine bark, rossed, bls... lb. .18 - .19
White precipitate, USP, powd., dms., lb. 6.55 - —
Whiting (see Calcium carbonate).
Wild cherry bark, thin, nat., bls. lb. .18 - .19
rossed, bls..... lb. .19 - .22
Witch hazel, bark, bls..... lb. .16 - .17
leaves, bls..... lb. .20 - —
Wollastonite, fine, bgs., c.l., works ton 39.50 - —
t.c.l. ex whse ton 56.00 - —
medium, bgs., c.l., works... ton 27.00 - —
l.c.l., ex whse ..... ton 44.00 - —
Woolfat, crude (see Degras).
USP (see Lanolin)
Wormseed, American, bgs..... lb .20 .25
Levant, bgs..... lb 4.25 4.50

X

Xylene (see Xylol).
Xylenol, cryst., 58°-60°C., m.p., dms., t.c.l., works lb. .40 - —
56°-58°C., dms. t.c.l., works, frt. equald lb. .30 - —
45°-47°C., dms., c.l., same basis. lb. .212 - —
t.c.l. same basis lb. .215 - —
tanks same basis lb. .199 - —
fraction, b.r. 7°-9°C., dry above 227°C., dms., c.l., same basis. gal. .96 - —
t.c.l., same basis ..... gal. .99 - —
tanks, same basis..... gal. .85 - —
dry at or below 227°C., dms., c.l., same basis gal. 1.11 - —
t.c.l., same basis ..... gal. 1.14 - —
tanks, same basis ..... gal. 1.00 - —
Xylidines, mixed, o-m-p, dms., c.l. or t.l., works.. lb. .39 - —
t.c.l. same basis ..... lb. .40 - —
tanks, same basis ..... lb. .38 - —
Xylol, coaltar, indust., tanks, works:—
Bethlehem, Pa..... gal. .34 - —
Birmingham dist..... gal. .32 - —
Chicago dist..... gal. .35 - —
Cleveland dist..... gal. .34½- —
Geneva, Utah..... gal. .27 - —
Johnstown, Pa. ..... gal. .33 - —
Lackawanna, N. Y... gal. .35 - —
Lone Star, Tex..... gal. .33 - —
Lorain, Ohio ..... gal. .33 - —
Middletown, Ohio.... gal. .34 - —
Minnequa, Colo ..... gal. .34 - —
Philadelphia dist..... gal. .34 - —
Pittsburgh dist..... gal. .32 - —
Sparrows Point, Md. gal. .34 - —
Terre Haute Ind.. gal. .35 - —
Youngstown, Ohio.... gal. .32½- —
petroleum, indust., tanks, works:—
Bayonne, N. J..... gal. .34 - —
Baytown, Tex..... gal. .33 - —
Chicago, Ill. ..... gal. .35 - —
Philadelphia, Pa. ... gal. .34 - —
Providence, R. I..... gal. .35 - —
Wood River, Ill..... gal. .35 - —

Y

Yara yara, ctns..... lb. 2.15 - 2.65
Yeast, brewer's, dry, USP, 50 Int'l B units per gram, 100-lb. dms lb. .47 - —
90 int'l B units per gram, 100-lb dms lb. .59 - —
260 int'l B units per gram, 100-lb. dms lb. .56 - —
300 int'l B units per gram, 100-lb. dms lb. .60 - —
Yellow, barium chromate, CP, bbls., dlvd N. of Tenn. and N. C., E of Miss., including Davenport, Minneapolis, Rock Island, St. Louis, St. Paul.... lb. .35 - —
Yellow barium chromate price differentials in other States and city zones are those for chrome yellow below.
Benzidine, AAA, bbls., dlvd..lb. 2.10 - —
AAOT, bbls., dlvd ..... lb. 2.85 - —
Lightfast, bbls., dlvd..... lb. 3.15 - —
Cadmium, CP, all shades, bbls., frt. alld. E. of Rockies. lb. 2.85 - —
Cadmium selenide lithopone, all shades, bbls., frt. alld. E. of Rockies..lb. 1.15 - —
Cadmium yellows, Los Angeles and San Francisco, ex whse., 1c. per lb. higher.
Chrome, CP, bbls., dlvd. N. of Tenn., and N.C., E. of Miss., including Davenport, Minneapolis, Rock Island..lb. .33 - .33½
Dlvd. Ala., Fla., Ga., La. (Shreveport 1¼ higher); Miss., N. C., S. C., Penna., Dallas, Tex. 1¼c. higher; Ft. Worth, Tex. 1½c. higher; El Paso Tex. 2c. higher; Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph 1.6c. higher; dlvd. Pac. Coast, for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.
Hansa, 10 g, bbls., same basis as yellow, chrome..lb. 2.10 - —
G pigment, bbls..... lb. 1.91 - —
Iron oxide, natural, French type, bgs., c.l., works..... lb. .05¼- —
Peruvian type, bgs., l.c.l. lb. .0205- .0355
pure, bgs., c.l., works... lb. .11½- —
l.c.l., works ..... lb. .11¾- —
Mercury oxide, bbls., 1,000-lb. lots. lb. 5.58 - —
smaller lots..... lb. 5.60 - —
Ocher (see Yellow, iron oxide, natural).
Zinc (chromate), bbls., dlvd....lb. .27 - .27½
basic, dlvd..... lb. .31 - —
Yerba santa leaves, bls..... lb. .40 - .42
Yohimbine hydrochloride, bots, tin. oz. 4.30 - 4.50

Z

Zein, bgs., 36,000-lb. lots or more lb. .38 - —
1,000 to 36,000-lb. lots, works. lb. .40 - —
smaller lots, works..... lb. .43 - —
Zinc acetate, NF VIII, dms..... lb. .53 - —
tech., dms., works ..... lb. .27 - —
Borate, bgs., c.l., dlvd. E..... lb. .192 - —
l.c.l. dlvd E ..... lb. .202 - —
Chloride, NF, gran., dms..... lb. .42 - —
precipitated, powd., dms...lb. .26 - —
soln., 50%, dms., c.l., works. 100 lbs. 5.50 - —
l.c.l., works..... 100 lbs. 6.10 - —
tanks, works ..... 100 lbs. 4.85 - —
tech., fused, dms., c.l., works. 100 lbs. 10.10 - —
l.c.l., works..... lb. 10.60 - —
gran., fib. dms., c.l., works. 100 lbs. 10.85 - —
l.c.l., works..... 100 lbs. 11.35 - —
Chromate (see Yellow, zinc).
Zinc Cyanide, kgs., 1,000-lb. lots or more, works lb. .523 - —
smaller lots, works ..... lb. .543 - —
Dust, pigment, bbls., c.l., works. lb. .17½- —
l.c.l., works ..... lb. .18½- —
Fluoride bbls., works ..... lb. .49 .50
Hydrosulfite, dms., c.l., frt. alld lb. .21½- —
l.c.l., frt. alld ..... lb. .22 - .37½
Metal, prime western slabs, E. St. Louis lb. .13½- —
New York ..... lb. .14 - —
Naphthenate, liq., 8% Zn., dms., frt. alld lb. .24½- —
10% Zn dms frt alld lb. .30 - —
Oxide pigment, American process, lead-free, bgs., c.l., frt. alld lb. .14½- —
l.c.l., same basis lb. .15½- —
leaded, 35%, bgs., c.l., mills, frt. alld lb. .15½- —
l.c.l., same basis lb. .16½- —
50%, bgs., c.l., same basis lb. .15⅞- —
l.c.l., same basis lb. .16⅞- —
French process, coml., green seal, bgs., c.l., frt. alld lb. .15¾- —
l.c.l., same basis lb. .16¾- —
red seal, bgs., c.l., same basis lb. .15¼- —
l.c.l., same basis lb. .16¼- —
white seal, bgs., c.l., same basis lb. .16¼- —
l.c.l., same basis lb. .17¼- —
USP, ctns., c.l., frt. alld.... lb. .17¼- —
l.c.l., same basis ..... lb. .18¼- —
Zinc oxide Pac. coast prices 1c. higher.
Phenosulfonate, NF, gran., dms. lb. .39 - —
powd., dms..... lb. .42 - .49
Zinc resinate, precip., 7.2-7.6% Zn, dms., frt. alld lb. .29 - —
Silicofluoride, dms., works .... lb. .12½- .14
Stearate tech., USP, ctns., c.l. lb. .39 - —
lb. .39 - —
t.c.l. ..... lb. .40 - .44
Sulfate, powd., monohydrate, 36% Zn, bgs., c.l., dlvd E 100 lbs. 8.75 - —
l.c.l., dlvd E ..... 100 lbs. 9.75 - —
Zinc sulfate in bbls. 40c. higher.
USP, gran dms lb. .26 - —
Sulfide, pure, bgs., c.l., dlvd lb. .2530- —
Undecylenate, dms. ... lb. 2.25 - 2.50
Yellow (see Yellow, zinc).
Zinc-ammonium chloride, bgs., c.l., works 100 lbs. 9.65 - —
bbls., c.l., works .... 100 lbs. 10.25 - —
l.c.l., works ..... 100 lbs. 10.75 - —
Zinc-formaldehyde sulfoxylate, basic, dms., c.l lb. .25½- —
t.c.l ..... lb. .26 - .41½
normal dms., l.c.l., works lb. .52 - —
Zircon (G), gran., bgs., c.l., works. lb. .03½- —
5 tons to c.l., works lb. .03⅝- —
1 ton to 9,999-lb lots, works. lb. .04 - —
smaller lots, works lb. .06½- —
milled, bgs., c.l., works .... lb. .04½- —
5 tons to c.l., works .. lb. .04⅝- —
1 ton to 9,999-lb lots, works. lb. .04½- —
Zircon (G), milled, bgs., 500-1,999-lb. lots, works lb. .07½- —
Zircon (G) in barrels, 1c higher.
Zirconium acetate, 13% com., ZrO_2, c.l., 30,000 lbs minimum, works lb .23 —
Hydride cns, works lb 7.00 8.45
Nitrate dms., ex whse lb 4.50 7.00
Oxide, 92½-99%, white, grd., bbls, or bgs., works lb. 1.50 - —
lump, electric-fused, bgs., c.l works lb. .44 —
5-ton lots, works lb. .44½ —
1 ton to 9,999-lb lots, lbs works lb .45 —
CP, white, grd., bbls., or bgs., works lb. 1.50 - —
lump electric fused, bags, 500 to 1,999-lb lots, works lb. .45¼ —
smaller lots, works, lb. .48 —
milled, electric-fused, bgs., c.l., works lb. .59 —
5-ton lots, works .. lb. .59½ —
1 ton to 9,999-lb lots, works lb. .60 —
500 to 1,999-lb lots, works lb. .60¼ —
smaller lots, works, lb. .63 - —
Oxychloride, cryst., ctns., 5-ton lots, works lb. .35½- —

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LACQUER AND VARNISH *makers use Metasap Stearates to assure efficient flatting, and to obtain better finishes.*

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PAPER, *Textiles, Cosmetics, Food Processing, Pharmaceuticals, and many other industries call upon Metasap Stearates to perform important services.*

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Appreciation Also Helps

Much good in both directions is reasonably to be expected to result from the efforts of the Manufacturing Chemists Association to interest students in the secondary-schools in scientific vocations and to encourage them to take courses of study providing the progressive educational preparation essential to their entering upon such careers. The program recently inaugurated by the association's advisers on education has made a good start toward overcoming at least some of the reasons for such students' lack of interest in such courses. The presentation of the opportunities for serving mankind by way of the many applications of chemistry to human needs and progress is at a level of the inclinations of secondary-school students. It makes an appeal which they can readily grasp with full understanding. It should do much to offset the fault charged against scientific schoolbooks of being lacking in such appeal.

It will be necessary, as the MCA advisers fully recognize, for their appeal to be supplemented by personal efforts of qualified representatives of the industry in their home communities. The plans call for such assistance, and every possible effort will be made to furnish such collaborators with working programs and material.

The arousing of student interest in a scientific future is but a first step toward providing an adequate supply of future scientists. Community school courses must be brought up to the needs of that job. The objective must be approached by two routes:—(a) Duly qualified representatives of scientific and technical industrial personnel must hold forums for interested students—and learn how to tell them exactly what they seek to learn. (b) These collaborators must coach the school teachers in the proper, adequate employment of industrially purposed teaching methods. Textbooks are not, as a rule, directed very well toward that need.

All that is but one part of the job of building up an adequate resource of basically prepared recruits for tomorrow's needs in scientifically and technically equipped industrial personnel. The job has many parts. There is a big one between the interesting of secondary-school students in a scientfic future and their finishing off by means of higher education. That intermediate part is one of maintaining their interest. It calls for interest in the other direction. The industries which are going to need the qualified recruits must properly manifest their interest in and appreciation of the endeavors of the students to measure up to that need.

One of the increasingly promising means of such manifestation is provided by the science fairs which are promoted at levels from community to national. The community or regional fairs for this year are now well along in preparation. Every industry with a need for scientific personnel should take part in that preparation, offering prizes, providing judges and forum panelists. Through their national organizations those industries should do all they can to manifest their interest and appreciation by way of the national fair which will be staged for its seventh year in Oklahoma City in May.

Awards in appreciation of the scientific achievements of secondary-school students should be looked upon as most helpful in the promotion of scientific interest and purpose at that and higher levels. Many such awards are now industrially provided. Most of them are in the nature of scholarships. An outstanding example in that direction has been set by a company whose interests are more physical than chemical. That company offers a medal annually in almost 6,000 secondary-schools throughout the country to the student achieving the highest scholastic record in scientific subjects during the high-school course. Winners of the medal are eligible for university science scholarships sponsored by the company with a flexible stipend ranging up to $4,000.

Initiation of scientific interest on the part of secondary-school students is a good start in the direction of meeting the growing needs for scientists. Promotion of that interest is a necessary, desirable complement. Appreciation of effort and progress has a great promotional potentiality.

Practical Problems in Economics

Practical, realistic viewing of economic phenomena can be most helpful in the development of stable economic progress. If it got half as much considerate attention as is given to the pronouncements of those foreseers and forecasters who are not subject to the statutory restrictions on fortunetelling, the people as a whole would be economically benefitted in all respects because the progress in the commercial areas of the national economy would be sound.

It is therefore to be expected with a deal of confidence that much good for the national economy, as well as for the chemical segment thereof, will come out of the discussion this week of "Why Chemical Growth and How" under the sponsorship of the Commercial Chemical Development Association. Those who will discuss that very significant subject from various angles are practical economists—they know little and care less about protracted theories. They know that industrial growth is a matter of men, money, and materials and their intelligent utilization in making and marketing.

Of particular interest in the slated discussions should be those having to do with integration, horizontal and vertical. There is a big opportunity there to emphasize the relations of its legal department to a company's growth. In view of the hazy-mazy program of antitrust dealing with mergers as a destroyer of competition, there is much to be learned about what may run into brambly going in connection with the replacing of suppliers of a producer's raw materials or processors of its intermediate products with even new integrated divisions.

The economic realist is a bit puzzled in his attempts to arrive at a sound evaluation of the extent to which the productive capacity of the nation's industry will stand expansion and how that expansion must be allocated among the various segments of the industry in order that the result will be a net overall gain. He is still puzzling over the aspect of that problem presented by the reports that consumer spending for washing machines increased substantially last year; and purchases of wearing apparel fell off. He has not yet got reliable figures to show whether the falling off there was as big as the gain in the washer segment and what were the relative effects of the two movements on how many individuals.

The realist also is puzzling over the reports that big productive expansion is planned in the chemical, steel, and petroleum industries. He can see that the growth of petrochemicals can help in two of those segments. But, he seeks to know, what will that mean in terms of available motor fuel, for example; to what extent will it be offset by the chemical development of new fuels—atomic and such? Certainly, he says, there can be no national net gain if what one of the two industries takes on the other must drop off.

Looking at the chemical picture, the realist sees great expectations in the direction of plastics. As those expectations are in goodly part based on the replacing of ferrous and other metals with plastics, he sees a seesawing by the steel and the chemical industries—and he has another puzzle. Maybe he should go to that CCDA meeting.

For World Health Day

It is not too early to begin giving some thought to the possibilities of the fact that April 7 will be World Health Day. As the theme for this year's day is "Destroy Disease-Carrying Insects," the thinking about the day can have a rather wide industrial range. FAO is joining with WHO in the promotion of World Health Day and is emphasizing the health aspects of the problems of insect pests in agriculture.

"World Health Day," says the official announcement, "affords an opportunity to arouse, throughout the world, popular interest in health needs and to stimulate the people's participation in the work of improving health." To make the most of that opportunity, the interest and the work, as in all world movements, should be applied in that little world which is one's own community. There is much to be done to improve health in every community—even though most of it in most cases, insofar as this country is concerned, has little, if any, involvement of destruction of disease-carrying insects. It involves only a little of the new program of President Eisenhower for governmental interest and work in health insurance, medical research, and medical education; although much could be done locally in those areas of health care needs if every capable individual would apply thereto his interest and work in his little world.

One movement in the direction of relief in the needs of those little worlds has been launched by the National Association for Practical Nurse Education. That organization says that at least 60,000 students should be in training in practical nursing. It is recruiting enrollees for the 400 schools which offer that training. The campaign has been supported by twenty-one foundations with grants totaling $133,500. Field recruiting units are being assigned. Every little world would be benefitted by providing a commensurate number of recruits and setting a practical program under the leadership of its business executives for the application of the services of the resulting trained practical nurses.

There can be no question that one of the most beneficial applications of the increasingly popular idea of "Do-it-yourself" can be in areas of community health service, including the remedying of slum conditions after the example set by the builders' group in a Long Island community recently. The opportunity afforded by World Health Day to "stimulate the people's participation in the work of improving health" should be recognized, accepted, and applied to that objective.

Washington Talks It Over

Friends of Little Business in the Senate Working Up Steam To Get Tax Laws Amendment Through This Session

By Ralph L. Cherry

Chief, OPD Washington Bureau

Senatorial supporters of little business interests are building up steam to get an amendment to the tax laws through this session to provide relief in the form of reduced taxes to the proprietors of small business firms. The administration's bill to extend the temporary corporate tax, due to expire April 1, for another year will be the vehicle for the small businessmen's drive.

Advocates of lower taxes on the little fellows received a temporary setback in the house ways and means committee, without public hearings, suddenly reported the bill to continue the corporate tax increase for another year along with the temporary hikes that were made during the Korean crisis in taxes on gasoline, special motor fuels, alcohol and certain other products.

Several bills were pending to reduce taxes on little business but they either escaped notice by the ways and means committee or members feared that to talk about tax reductions at this time would be like opening Pandora's box. Everybody and his brother would be at the committee's doorstep with appeals for reductions for their particular group of taxpayers.

Over in the senate, however, members are not quite so squeamish about considering this subject at this time and they plan to press for action when the opportunity arrives. The small business bloc is lining up behind a bill that would lower the present 30 percent tax on the first $25,000 of income to 22 percent, and raise the present 22 percent surtax on incomes above $25,000 to 30 percent.

It is estimated that the modification in the rates would cost the federal treasury about $300,000,000 in revenues, but, say its advocates, think how many votes it might get.

Fertilizer Program Anniversary

This year marks the start of the third decade of the fertilizer test-demonstration program of the Tennessee Valley Authority. Current enrollment in the program is slightly over 3,000 farmers in twenty-two states. The program has done much to spread the knowledge of the value of fertilization and widen the market for the industry's products.

Under the program, TVA experimental fertilizers are sold at a discount to each farmer. The reduction in price is an incentive for the farmers to test these newly developed materials, keep accurate records on their operation and be willing to demonstrate their effectiveness to other farmers. The fertilizers average about a third of each cooperating farmer's annual needs.

A farmer is eligible for an active part in the program as a test-demonstrator for about five to seven years. Since 1936, a total of 70,000 farmers has been enrolled in thirty-five states.

Unemployment Insurance Extension

The Labor department is considering having unemployment insurance protection extended to all wage earners not now covered by federal and state unemployment insurance laws. The department's federal advisory council on employment security has been directed to look into the advisability of such a step.

It is estimated that presently about 12,500,000 of the nation's wage earners are not covered by unemployment insurance protection by reason of exemptions contained in the federal and state laws. These include chiefly the employees of state and local governments, workers in domestic services, agricultural workers, and employees of small firms excluded by size of firm restrictions.

The number of individuals covered by unemployment insurance protection totals about 41,600,000.

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Heavy Chemicals

Zinc sulfate was boosted last week, following announcements by producers made several weeks ago. Sodium metasilicate pentahydrate and sodium silicates were boosted on spot. Contract increases were slated for April 1. Producers kept a wary eye on the rail and truck freight rate increase, scheduled to go into effect on March 7.

A close watch was also being kept on the automobile industry, due to declining production rates there.

Currently, business in heavy chemicals was brisk. Mineral acids moved in large volume in heavy industrial areas, particularly in the northeast and midwest.

Demand for steel, stainless steel fabrication, rayon, petroleum, pigments, and other uses accounted for heavy ordering of sulfuric, nitric, hydrochloric, hydrofluoric and other acids.

Chlorine supplies were in close balance with current demand. There was some feeling that supplies could again become short owing to coming seasonal influences.

Soda ash and caustic soda inquiry was held at a high level. Supplies were judged generally adequate. Solid and flake grades of caustic soda were believed in better supply than previously.

Copper prices were firm, owing to increased strength abroad. Tin prices were still quite high, but slid off to some extent last week. Salts were correspondingly lower.

Silver bullion was also on the down side. A fair balance between supply and demand existed in the chemical lime market.

The American Paper and Pulp Association reported production for the week ended February 25 at 101.0 percent of theoretical capacity, as compared with the revised figure of 102.4 percent for the previous week and 98.3 percent for the corresponding week of last year.

Acid, Hydrochloric — Consuming demand in heavy industrial regions continued to keep production facilities in those areas operating at near capacity levels in order to fill demand.

In areas where acid was derived as a byproduct of chlorination of hydrocarbons, however, supplies were lengthy owing to regional lack of demand coupled with strong inquiry for vinyls, chlorinated solvents, and other organic chemicals.

Among consumers of hydrochloric acid, steel production and fabrication, industrial chemical manufacture and other processes accounted for heavy consumption. Prices were expected to hold for the rest of the quarter.

Acid, Hydrofluoric—Demand held up well for such end uses as stainless steel, fluorinated hydrocarbons, and glass industry use. Prices held firm and unchanged.

Acid, Phosphoric—Food industry and other commercial demand was well maintained during the week. There was also a decided improvement in takings by fertilizer manufacturers.

Contract prices held steady and unchanged, and were expected to hold firm for the next quarter.

Acid, Sulfuric—Rayon and steel continued to buy in large volume to cover current needs. Petroleum, pigments, alcohols and other applications were also very active.

Steel production last week dropped to 98.4 percent of capacity, and was 2,422,000 tons, as estimated by the American Iron and Steel Institute, as against actual output of 2,433,000 tons, or 98.8 percent the previous week.

Calcium Chloride—Current deliveries against old contracts remained strong, for highway ice control chiefly. A seasonal lull was expected for the next two months, due to the lapse of time between the ice control season and summer dust-laying applications on secondary roads.

Chlorine — The current market was about in balance. There was enough chlorine, but supplies were none too ample. Some sources felt that with improving seasonal interest in the spring, chlorine could again become short.

Lime—The current situation for chemical lime showed a fair balance between supply and demand. Reports indicated slight oversold conditions in some areas, while others were slightly undersold, bringing about a fair balance in the overall picture.

Some shortages have been noted, but in general they have been of short duration.

Potash, Caustic — Demand for caustic potash remained strong for both liquid and solid forms. Despite

Price Trends

Advanced

Sodium metasilicate, pentahydrate, 15c. per cwt.
Silicate, liq., 40°, Be, 10c. per cwt.
47° Be, 15c. per cwt.
52° Be, 15c. per cwt.
solid, $5 per ton.
Tungsten, metal, 15c. per lb.
Zinc sulfate, 36%, 25c. per cwt.

Reduced

Mercury, $3 per flk.
Potassium stannate, 1.9c. per lb.
Silver, ¼c. per oz.
Sodium stannate, 2.2c. per lb.
Stannic chloride, 2.3c. per lb.
Stannous chloride, anhyd., 3.2c. per lb.
Hydrous, cryt., 2.5c. per lb.
Sulfate, 2.9c. per lb.
Tin, 5c. per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Mar. 3, 1955
101.24	101.19	101.16	98.44

For Current Prices see Page 9

Inorganic Chemicals Output: December

The following figures compiled by the Bureau of Census indicate production of industrially important inorganic chemicals, in tons.

	Dec.	Nov.		Dec.	Nov.
Acid, chromic	1,361	1,420	Soda, caustic, electrolytic, liq.	316,841	305,431
Hydrochloric	78,154	76,418	lime-soda, process, liq.	39,732	40,441
Hydrofluoric	5,478	5,622	Sodium bicarbonate	8,747	9,003
Nitric	212,816	199,341	Chlorate	4,560	3,817
Phosphoric	304,081	298,313	Metal	10,610	9,839
Sulfuric, new	1,397,799	1,354,294	Phosphate, monobasic	956	805
Aluminum chloride, anhyd	3,375	3,325	Dibasic	2,713	2,310
liq., cryst.	858	1,313	Meta	5,835	5,131
Calcium carbide	85,611	80,686	Tetra	10,361	9,189
Carbon dioxide, liq., gas	17,168	17,388	Acid pyro	983	1,619
solid	32,371	34,918	Tripoly	49,296	49,738
Phosphorus, elemental	24,909	24,472	Silicate	53,826	58,811
Oxychloride	1,407	1,577	Sulfate, anhyd.	24,179	24,330
Trichloride	1,509	1,479	Glaubers salt	10,545	11,735
Potash, caustic, liq.	7,857	7,448	Saltcake, coml.	59,784	63,199
solid	1,720	1,602	Sulfide, conc.	2,589	2,473
Soda ash, light	244,194	237,097	other	2,714	2,306
dense	149,403	159,908	Sulfur dioxide	5,444	5,257
natural	62,110	61,832			

recent increases in price for industrial potassium chloride, no imminent price rises for caustic potash were foreseen.

Potassium Chlorate — Crystalline potassium chlorate was priced at 10¼c. per pound, drums, carlots, works, and less carlots, 10½c. to 11½c. per pound, as to quantity.

Producers indicated that the bulk of business in this material is transacted in less carlot quantities for a number of end uses.

Powdered potassium chlorate was listed at 10¾c. per pound, carlots, drums, and 11c. to 12c. per pound, less carlots, f.o.b. works, as to quantity.

Potassium Perchlorate—Prices of long standing were unchanged. Potassium perchlorate was priced at 17½c. per pound, drums, carlots, f.o.b. works, and 18c. to 19c. per pound, less carlots, as to quantity.

Soda Ash—Light and dense soda ash shipments were maintained in good volume, and demand was reported active throughout the end use pattern.

Manufacture of glass, aluminum and phosphates keynoted current inquiry, as output of those materials was sustained in strength during the week.

Sodium Silicate—Effective on spot last week, and on contract April 1, sodium silicate and sodium metasilicate pentahydrate were increased in Price.

Sodium metasilicate pentahydrate was raised 15c. per hundred pounds, listed at $4.25 per cwt., bags, carlots, f.o.b. works, and $4.60 to $6.50 per cwt., less carlots, same basis.

Drums were newly quoted at $4.75 per cwt., carlots, f.o.b. works, and $5.10 to $7 per cwt., less carlots, same basis.

Liquid 40 degree Be 1:3.2 sodium silicate was listed at $1.45 per hundred pounds, drums, carlots, f.o.b. works; less carlots, $1.80 to $2.30 per cwt., same basis, and tankcars, $1.10 per cwt. same basis.

Turbid 47 degree 1:2.9 silicate was up 15c. per cwt., quoted last week at $2.10 per cwt., drums, carlots, works, and $2.70 to $2.95 per cwt., less carlots, same basis. Tankcars were quoted at $1.75 per cwt., f.o.b. works.

Fifty-two degree 1:2.4 was scheduled at $2.10 per cwt., tankcars, f.o.b. works: drums, carlots, $2.45, and less carlots, $2.80 to $3.30 per cwt., same basis.

Solid sodium silicate, 1:3.2 rose $5 per ton, and was priced at $62.50 per ton, bags, carlots, f.o.b. works.

Tin Chemicals—With lower tin, potassium stannate was quoted at 70.9c. to 77.5c. per pound; sodium stannate, 58c. to 63.4c.; stannic chloride, 79.5c. to 80.5c.; oxide, $1.03 to $1.04; stannous chloride, anhydrous, 92.1c. to $1.19; hydrous crystals, 80½c. to 81½c., and sulfate, 97.6c. to 99.6c.

Nonferrous Metals

Aluminum — January primary aluminum production totaled 280,787,668 pounds, as compared to 281,496,030 pounds produced in December, and 256,406,748 pounds in January, 1955, according to the Aluminum Association.

December, 1955, was an all-time record month for aluminum output, and the fourth quarter of 1955 set an all-time quarterly record, production amounting to 818,185,864 pounds.

Copper—Metal was strong at 46c. per pound, delivered US destinations. Overseas markets continued higher than the domestic price.

Mercury — Trading was quiet. Metal was priced at $266 to $269 per 76-pound flask, spot.

Silver—Silver was easier last week, priced Friday at 91⅛c. per troy ounce, spot.

Tin—After moving up sharply the previous week, tin declined, and was quoted at $1.01 per pound, spot, for straits metal.

Tungsten — 98.8 percent metal rose, due to higher ores, and was quoted at $4.50 per pound, spot.

BDSA Aluminum Position To Former Reynolds Man

Irving P. Macauley, retired vice-president of Reynolds Metals Company, has been appointed director of the aluminum and magnesium division, Business and Defense Services Administration.

In accepting the appointment, he takes to BDSA current expert knowledge of the aluminum industry together with a background of some thirty-six years' experience in that and related industries. After serving actively for some six months he will continue to be available thereafter as a trained reservist in the event of any future emergency.

Gen. McAuliffe to Head Cyanamid Construction Unit

American Cyanamid Company, New York, has announced that Gen. Anthony C. McAuliffe will join the company on May 1. Gen. McAuliffe's retirement was announced last week by Secretary of the Army Wilber M. Brucker.

Gen. McAuliffe will head the newly-created engineering and construction division.

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CHEMICALS OUTLOOK March, 1956

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By observing these trends, the formulator can select—from the Grid—the Pluronics having the best balance of properties for his particular application. After only a few laboratory tests, he can narrow this area down to the best Pluronic for his formulation.

Known trends for several general properties of the Pluronics are shown; other specific trends can be determined easily by evaluating a few Pluronics from various positions on the Grid.

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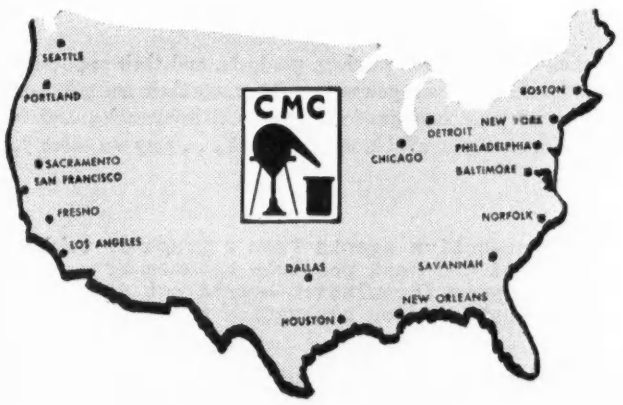

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Columbian Carbon Starts New Structure Tomorrow

Carl E. Kayser, president of Columbian Carbon Company, will break ground tomorrow for the company's new Akron, Ohio, headquarters, located at 452 East Market street.

The building of the office-laboratory building will be one of the first moves of Columbian Carbon in an over-all expansion program undertaken since the company assumed the sale of its own products July 1. Prior to that, Columbian enjoyed long association with the rubber industry through the distribution of its carbon black and other products by Binney & Smith, Inc.

Another expansion by the company is being made in Monroe, La., where a carbon black operations headquarters is being constructed. This will include administrative offices, control laboratories and engineering department facilities.

The new building being constructed by Columbian, in step with the Akron Area Development Committee, shows the company's faith in maintaining Akron as the hub of the ever expanding rubber industry, officials pointed out. The new plant will house Columbian's area sales and technical staffs and will be the headquarters for servicing all the rubber plants between the Mississippi and the New York area.

The office-laboratory building will occupy about five thousand square feet on a half-acre plot at the corner of East Market street and the North-South Freeway. It will be constructed at an estimated total cost of $150,000.

Soybean Exports

—Continued from page 7

Western Germany and the Netherlands. Canadian purchases were slightly larger than in 1954.

Exports of soybean oil in the first half of 1955 were materially smaller than a year earlier, but large shipments to Spain and Greece in the second half, reflecting purchases to supplement short domestic supplies of olive oil, raised the year's total to a level well above 1954.

The exports to Spain were the first since 1951, when 72,641 tons were shipped, also as a supplement to short olive oil supplies. The 1955 exports to Spain accounted for 50 percent of the total to all countries, and those to Greece, for 18 percent. Purchases by Canada, up 66 percent from 1954, accounted for 17 percent of the 1955 total.

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Cyanamid Promotes Two In Industrial Chemicals Unit

George W. Russell has been named general manager and Alden R. Loosli assistant general manager of American Cyanamid Company's industrial chemicals division.

Mr. Russell, formerly assistant general manager of the company's pigments division, has been with Cynamid since 1946 when he joined the market development department. During the next two years he served in the technical department and new products development department of Cyanamid. In 1949 he was named assistant sales manager of the industrial chemicals division, and in 1953 was made manager of the manufacturers chemicals department of the same division.

Mr. Loosli, formerly assistant general manager of the fine chemicals division, has been with Cyanamid since 1937. He held numerous posts in the former Calco Chemical Division, and became assistant manager of the intermediate and rubber chemicals department in 1950, assistant to the division's general manager in 1953, and the following year was named assistant general manager of the newly-formed fine chemcials division.

American Potash Names Cooper to New Position

Dr. Hal B. H. Cooper has joined American Potash & Chemical Corporation, Los Angeles, in the newly-created position of director of development engineering.

Mr. Cooper will be in charge of special engineering phases of new projects and developments at various company plants and will act as engineering advisor on pilot plant research operations.

Kaiser Aluminum Appoints Two New Works Managers

Kaiser Aluminum & Chemical Corporation, Oakland, Calif., has appointed Lloyd A. Amos works manager of the company's new plants at Ravenswood, W. Va.

A. F. Garcia has been named to succeed him as works manager of the corporation's reduction plant at Mead, Washington. Both appointments are effective immediately.

Stein, Hall Picks Lipman

Election of Daniel H. Lipman as a director of Stein, Hall & Co., Inc., has been announced. Mr. Lipman is also a vice-president and general sales manager. Mr. Lipman joined Stein, Hall in 1938 as a sales representative at its New York office.

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SAACI President Names New Committee Chairmen

New committee chairmen have been appointed by the president of the Salesmen's Association of the American Chemical Industry, E. L. Collins of Chilean Nitrate Sales Corporation. The committee heads, approved by SAACI's board of directors, are:—

Admissions, George W. Poland, jr., of E. M. Sergeant Pulp & Chemical Company; auditing, Al Wohlwend of Stauffer Chemical Company; "Chemical Peddler," George T. Bayley of the New York Journal of Commerce; employment, Leon W. Miller of the Barrett Division, Allied Chemical & Dye Corporation.

Entertainment, Harry D. Watson of Olin Mathieson Chemical Corporation's international chemicals division; golf, Stewart Cowell of J. T. Baker Chemical Company; publici y, Arthur R. Kavaler of OIL, PAINT AND DRUG REPORTER; sales clinic, Preston F. Tinsley of Westvaco Chemical Division, Food Machinery & Chemical Corporation, and welfare, B. J. Shepard of Shepard Chemical Corporation.

Piperidyl Methadone Sought For Habit-Forming Drug List

Treasury Department last week gave notice of intentions to add piperidyl methadone and seven other synthetic drugs to the list of opiates having an addiction-forming or addiction-sustaining liability similar to morphine.

Persons desiring to be heard on the matter will be given an opportunity to testify before the commissioner of narcotics March 29. The drugs proposed to be added to the list are:—

(1) 4,4-diphenyl-6-piperidine-3-heptanone. (piperdyl methadone). (2) Isopropyl 1-methyl - 4 - phenylpiperidine-4-carboxylate. (3) 3 - diethylamino - 1,1 - di(2 - thienyl - 1 - butene. (diethylthiambutene). (4) 1,3-dimethyl - 4-phenyl-4-propionoxyhexamethyleneimine. (5) 3-hydroxy-N-phenethylmorphinan. (6) Ethyl 2,2-diphenyl-4-morpholinobutyrate. (7) 4-dimethylamino-1,2-diphenyl-3-methyl-2-propionoxybutane. (8) Ethyl 1-[2-(p-aninophenyl)-ethyl]-4-phenylpiperidine-4-carboxylate.

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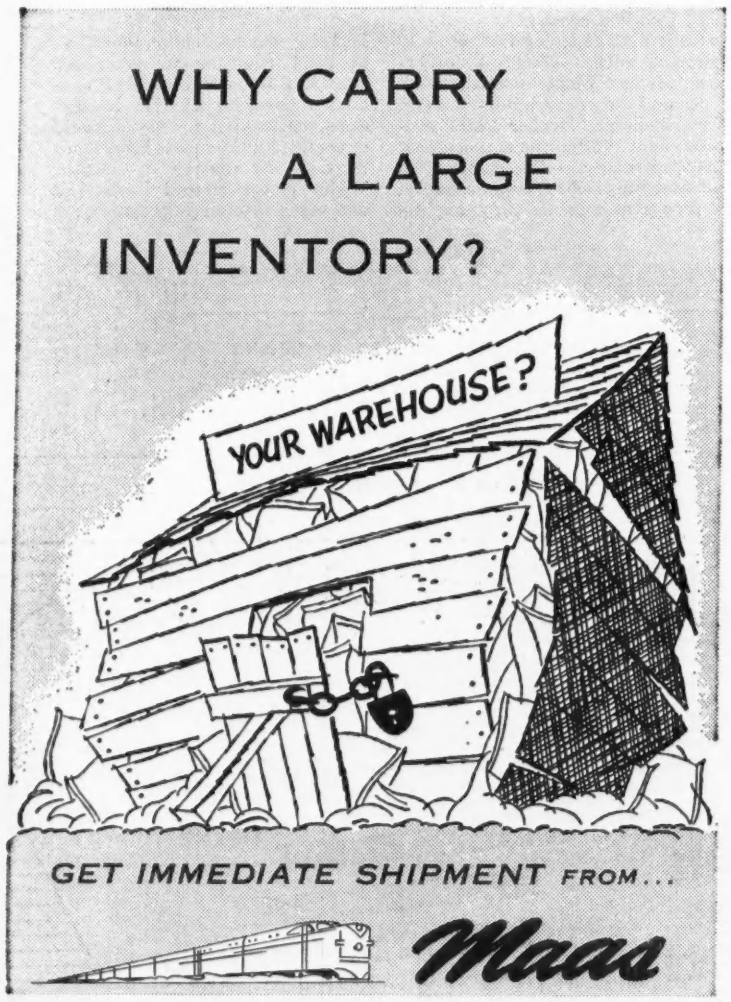

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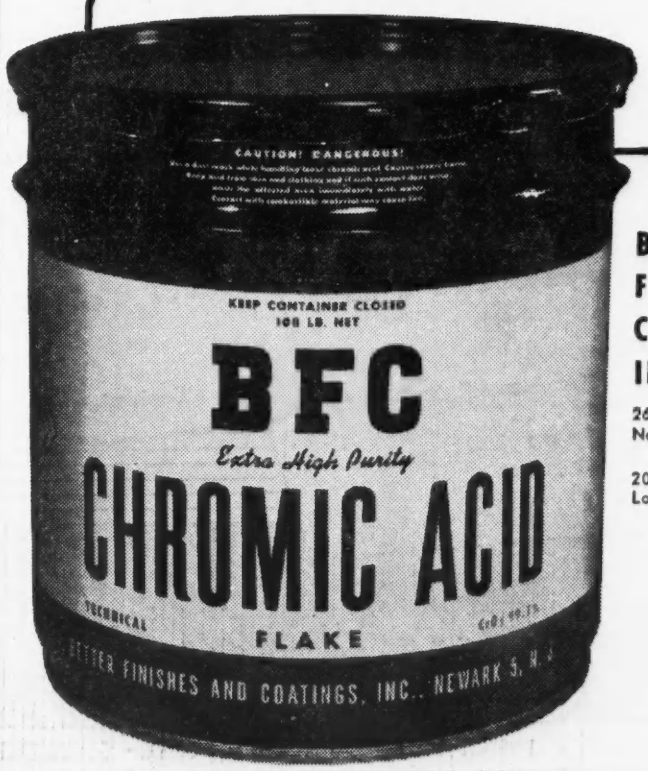
No More Privacy Than a Goldfish

Got a big surprise looking through the pages of *Chemical Week* the other night.

There big as life was a photograph of 54 shiny cans of BFC Chromic Acid being stacked by a Clark Clipper industrial truck in the warehouse of a distributor. Looked good to see all those cans in plain sight — even after the ad-man cropped off the photo to keep his lift-truck front and center.

Point is our distributors do have good stocks and good equipment to move them in and out pronto. They buy a quality product from quality-minded folks and sell it as a quality product should be sold. We take good care of them; they take good care of their customers. Everybody wins.

Care to do business on that basis?



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Textile, Leather Chemicals

Moderate volume of business was reported last week for textile and leather chemicals, primarily for prompt needs. Withdrawals of materials, however, continued active against former contracts. A firm tone prevailed throughout the market. Demand for chemicals was active against recent orders, while new business was reported spotty. In sizing materials, all items were closely held at current levels, despite light volume of business. Deliveries against contracts, continued to move in good volume. Potato starch in Maine was held at the recent advance, with Idaho production firm at unchanged quotations. A fair volume of business was reported in tapioca flour for spot and later delivery. Stocks of sago flour on spot have been replenished and supply situation improved.

Consumer interest in tanning materials was still limited. Valonia beards and cups shipments were higher, while other materials remained unchanged and steady.

Rayon production in 1955 was the largest on record, totaling 972,800,000 pounds, 9.8 percent more than in 1953 the previous record year and 15.6 percent more than 1954, according to the American Rayon Institute. Production of filament yarns was 25 percent above the 1954 level. Rayon ranked second only to cotton among all the world's fibers in 1955 and its output surpassed all other man made fibers combined. Rayon mill consumption in the United States in 1955 accounted for 17 percent, followed by 6.7 percent for non-cellulosic synthetics, 6.4 percent wool and 4.2 percent acetate. In 1955, rayon tire cord accounted for more than 40 percent of rayon consumed, according to the Institute. About 30,000,000 pounds of high tenacity rayon went into belting, industrial hose, sewing thread and other industrial products.

Price Trends

Advanced

Valonia beards, $4 per ton.
cups, $2 per ton.

Reduced

None

(100=1949 average)

Last week	Prev. week	Last month	Mar. 3, 1955
107.85	107.27	106.60	100.00

Comparative Price Indexes

For Current Prices see Page 9

Chemicals

Bichromates — Production of sodium bichromate and chromate in December totaled 10,398 tons, compared with 10,287 tons in November and 8,707 tons, December 1954 according to the Census Bureau. Stocks at producing plants amounted to 4,668 tons, December 31 against 3,634, November 30. New business was spotty, while withdrawals against current contracts moved in good volume.

Sodium Acetate — Demand was spotty. Quotations were unchanged and well held.

Sodium Hydrosulfite — Demand from the textile trade was reported slow, while other consumers absorbed fair sized quantities for prompt delivery. Prices were maintained at current levels. Production in December totaled 2,277 tons, against 2,351 in November and 2,506, December 1954. Stocks at producers plants amounted to 1,894 tons, December 31 and 1,820, November 30.

Sizing Materials

Albumin Blood — Trading was quite active, for prompt delivery. Prices were well held at 65c. to 80c. per pound, depending upon quantity.

Corn Dextrin—Steady consuming demand was noted for all grades. Prices were without change and steady. Gum was quoted at $9.15 per 100 pounds, paper bags, carlots, New York delivery; canary, $8.89; dark, $8.99 and white, $8 73, same basis. Smaller quantities were 15c. per 100 pounds higher.

Corn Starch—Market was steady and quotably unchanged. Consuming demand continued active for actual needs. Pearl was quoted at $7.13 per 100 pounds, paper bags, carlots, New York, and powder $7.25, same basis. Lesser quantities were 15c. per 100 pounds. Visible corn supply increased 649,000 bushels to 51,121,000 bushels for the week ended February 24, compared with 49,005,000 bushels for the corresponding week last year, according to The Chicago Board of Trade.

Egg Albumin — Consumers continued to operate in a hand-to-mouth manner. Quotations were unchanged and well held. Flake was quoted at $2.20 to $2.24 per pound, and powder, $2.24 to $2.28 per pound, spot according to seller and quantity. Technical was in spotty demand and ranged from 83c. to 90c. per pound, as to quantity.

Egg Yolk — Buying interest was light and sales were confined to actual needs. Prices were unchanged, ranging from $1.02 to $1.06 per pound, spot as to quantity and seller.

Potato Starch—Consumers absorbed good sized lots for spot delivery, but showed little interest in later requirements. Withdrawals against former contracts continued in steady request. Carlots were quoted at 5¾c. per pound, f.o.b. mills, Maine. Idaho starch was unchanged at 6c., carlots, f.o.b. mills and 6/10c. per pound less for shipment to eastern points. Spot market was maintained at 8c. to 8¾c. per pound, exwarehouse, as to quantity.

Sago Flour—Stocks on spot were in better supply, having been replenished by recent arrivals. Market was unchanged and steady. Raw was held at 7c. to 7½c. per pound, and refined, 8½c. to 8¾c., exwarehouse as to quantity.

Tapioca Flour—Business reported fairly active. Shipments from Brazil were held at 6.1c. per pound, carlots, exdock. Stocks on spot were unchanged at 7¾c. to 8¼c. per pound, exwarehouse as to quantity. Siamese medium grade was quoted at 5¾c. per pound, carlots, exdock, prompt shipment.

Tanning Materials

Chestnut Extract—While trading was light, prices were steady and unchanged for all grades. Liquid 25 percent tannin was quoted at 4c. per pound, tankcars, f.o.b. works; powdered 60 percent tannin, 10.32c. per pound, bags, carlots, and 11.02c. bags, less carlots, same basis.

Cutch — Market was without change. Shipments were maintained at 8½c. per pound, carlots, exdock. Consuming inquiry was fairly active.

Myrobalans—Offers for shipment were restricted to limited quantities. Prices were nominal and subject to confirmation. No. 1 assorted was nominal at $68 per ton, exdock; crushed, $80 and Bombay, $63 per ton, same basis.

Quebracho Extract—Primary market remained firm at current quotations. Buying interest was confined to prompt shipment. Solid ordinary, guaranteed 63 percent tannin quoted at 11 21/32c. per pound, exdock, plus duty and clarified, 64 percent at 12 23/64c., same basis.

Valonia—Replacements were firm and higher. Consuming inquiry was reported light and spotty. Beards were raised to $77 per ton, exdock, prompt shipment and cups to $56 per ton, same basis. Extract was unchanged at 8¾c. per pound, exdock, plus duty.

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About the author . . .

Dr. de Ong brings to this book a vast knowledge of entomology and the insecticide industry born of 33 years of close association with laboratory and industrial research development. He was in charge of entomology at University Farm, Davis, California, where he taught research and extension work in insect control and insecticides. Then for seven years, he was director of the Insecticide Laboratory of the University of California at Berkeley.

For the past twenty years, during ten of which he acted as Secretary-Treasurer to the Pacific Insecticide Institute, his consulting work for many of the largest companies in the country has kept him in close touch with major problems, research and new developments, and has earned him an outstanding reputation. In addition to his many technical papers and bulletins, his long association with growers, manufacturers and officials, and his establishment of the industry advisory committees among manufacturers throughout the United States for the O.P.A., Dr. de Ong has written many amendments to the laws pertaining to insecticides in the western states.

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Aliphatic Organics

A price cut of 3 cents per pound was announced for methyl methacrylate monomer last week, effective March 1. The reduction was the second such action in four months, there having been a similar cut last December. The decline was ascribed to lower cost processes and expanded production volume and was expected to further widen the field of application for acrylate plastics. Technical developments in recent years were said to have cut manufacturing costs and the new lower price, in the opinion of the producer, should permit entrance into markets where price was formerly a barrier for acrylic monomers.

There were no other price changes reported. The market exhibited stability in view of the overall good call for aliphatic organic compounds, it was noted, although the next few weeks should indicate whether further price hikes are planned since most contract arrangements call for a 15 day notification period prior to any price advance. Most observers believe that the market, as a whole, will continue into the second quarter with a firm price structure.

There was one disturbing factor, however, which probably will cause chemical manufacturers to reconsider current price schedules in the near future, however. This was an increase in shipping costs which appeared likely to occur this week. Both the railroads and the trucking industry have indicated their intention to boost rates 7 percent across-the-board, to go into effect on March 7. One midwestern trucking group was reported to have already increased their rates. Others were slated to put increases into effect on either March 10 or 12. To what extent this development may effect chemical prices remains a matter for conjecture, however. In the past, such increases have been absorbed for a time at least and the almost blanket increase in many aliphatic organics late last year and at the beginning of this year made up for all prior freight increases and higher labor and material costs, it was said.

Price Trends

Price Trends

Advanced
None

Reduced
Methyl methacrylate monomer, 3c. per lb.

Comparative Price Indexes
(100—1949 average)

Last week	Prev. week	Last month	Mar. 4, 1955
130.98	131.02	131.02	130.42

For Current Prices see Page 9

Alcohol—Demand for ethyl alcohol was reported to be running at a sustained pace. Despite the cutback in auto production there appears to be little change in the overall consumption rate since alcohol goes into a large and diverse number of intermediate and end uses which are not directly related with automobile manufacture.

Production of butadiene from fermentation alcohol continues at a steady rate and indications were that the continued shortage of butadiene would be reflected in substantial consumption of alcohol for this use. The producer of alcohol based butadiene reports no difficulty in meeting all regular alcohol commitments aside from the amount of ethanol used in butadiene production.

Pricewise, the market continues very firm in ethanol and was expected to continue. Supplies are adequate to meet all commitments.

Figures on production, withdrawals, and stocks released by the Alcohol and Tobacco Division of the Internal Revenue Service, pertaining the ethyl, completely denatured, and specially denatured alcohol during December, 1955, compared with December, 1954, were as follows:—

Production

	Gallons 1955	Gallons 1954
†Ethyl	41,171,660	33,650,805
*Completely denatured	75,274	63,326
*Specially denatured	26,346,043	17,109,478
Withdrawals		
†Ethyl, tax paid	888,242	755,138
tax free	49,485,897	32,175,071
*Completely denatured	89,138	68,477
†Specially denatured	25,401,613	17,271,789
Stocks		
†Ethyl	40,478,850	53,917,109
*Completely denatured	8,006	13,537
*Specially denatured	7,692,621	5,420,749

*Wine gallons. †Proof gallons.

According to the Alcohol and Tobacco Tax Division, materials used in industrial alcohol plants in December, 1955, and December, 1954, were as follows:—

	Pounds 1955	Pounds 1954
Corn and corn products	2,869,360	1,688,958
Rye and rye products	344,960	401,632
Malt and malt products	248,130	242,612
Wheat and wheat products	1,873,000	.....
Sarghum grain and sorghum grain products	1,701,155	1,705,140
Total grain	7,036,605	4,038,342
Ethylene gas	7,814,805	11,603,868
Other materials	1,757	9
	Wine gallons 1955	**Wine gallons 1954**
Molasses	7,962,826	3,832,764
Ethyl sulfate	20,542,068	17,668,139
Sulfite liquors	21,740,600	19,180,300
Other materials	1,440,883	1,908,100
†Products used in redistillation	1,311,746	2,207,126

†Proof gallons.

Amyl Acetate—Demand for amyl acetates, both fermentation and synthetic, was reported to be running at a good clip. It was noted that there has been an increased availability of the fermentation material as a result of the stepped up output of fermentation alcohol in connection with the output of butadiene from ethyl alcohol. Prices continue steady while supplies of both types were adequate to cope with consumer requirements.

Butyl Alcohol—The market was steady last week. There has been some falling off in inquiry attributable to the cutback in auto production but most producers discount any forthcoming serious reduction in consumption in the automotive industry. Appliance and furniture manufacture continue to take a sizable proportion of overall output, it was noted, in addition to the auto refinishing market, which has not been affected.

Pricewise, butanol was in a firm position, while supplies were adequate to accommodate current consumer needs and expected to continue in the immediate future. Production of primary butyl alcohol in December amounted to 19,353,435 pounds compared to 18,715,520 pounds in November, 1955, according to the Tariff Commission.

Ethyl Acetate—Inquiry for this lacquer solvent was reported to be running at a good level. Supplies were adequate to cover current trade needs while prices were steady.

Production of ethyl acetate (85 percent) totaled 7,635,979 pounds in December, according to the Tariff Commission, compared to 6,123,916 pounds in November.

Ethyl Ether—Demand for this solvent material was said to be satisfactory. Supplies were ample to accommodate consumer inquiry and expected to continue in the immediate future. Prices were firm and unchanged.

Production of ethyl ether, technical and USP combined, amounted to 5,549,510 pounds in December compared to 6,594,235 pounds in November last year, the Tariff Commission reports.

Ethylene Glycol—Demand for ethylene glycol was reported to be continuing at a brisk rate. Anti-

freeze producers were currently in production on the coming winter's glycol requirements. Despite the cutback in auto production, the replacement market for ethylene glycol continues to expand. Final figures for the ethylene glycol output last year revealed an increase of some 230,000,000 pounds over the preceding year. Total production of the glycol was recently compiled at 868,400,000 pounds compared to an overall output of 637,900,000 pounds in 1954. The 1955 production total exceeded the previous peak year record of 761,000,000 pounds, which was set in 1952 by over 107,000,000 pounds. Percentagewise, production of ethylene glycol exceeded that in 1954 by approximately 36 percent.

Prices remain quite firm in view of the sustained demand and it appeared that this situation would continue unchanged in the coming quarter. Supplies were sufficient to meet consumption with little leeway.

Glycerin—The market continued to exhibit stability, both in prices and supply. Demand continues strong and there appears to have been little affect upon overall consumption as a result of the cutback in auto production. The attitude of most alkyd resin manufacturers seems to be that the cutback is only temporary and that demand from other outlets such as the appliance field will continue to increase. It has been estimated that glycerin accounts for nearly one-fifth of the country's total alkyd production.

Pricewise, the market remained unchanged. With the recent easing in imported, crude, it appeared unlikely that prices would be changed in the near future. The high rate of industrial and construction activity has been responsible for a substantial amount of glycerin going into dynamite manufacture while other outlets such as cosmetics and pharmaceuticals continue to account for sizable quantities of glycerin, it was noted.

Methly Ethyl Ketone—The market was reported to be holding up quite well. Difficulties in production processes were said to have held up the output of one producer to some degree but the overall supply situation appeared to be about in balance with consumption. The cutback in auto production has not had any significant effect upon inquiry from that quarter, it was said whereas other outlets such as car refinishing and appliances were reported to have a sustained demand for the ketone.

Methyl Methacrylate—Prices were reduced 3c. per pound last week, effective March 1, 1956. The decline was the second such reduction in four months. Last December, it was noted, the compound was cut 3c. The new tankcar price was posted at 29c. per pound with drum carloads and truckloads listed at 31c. and less than truckloads or carloads in drums at 31½c.

The reduction was said to have been effected as a result of lower cost processes and expanded production volume. It was felt that the lower price would serve as further inducement to plastics manufacturers to make more plastic items using acrylic monomers. The lower price should also make possible penetration into markets where formerly price had been a formidable barrier to the use of arcylate monomer.

Colgate Research Center Slated for Bloomfield, N. J.

Colgate-Palmolive Company has completed arrangements to purchase a thirty-five-acre tract of land in Bloomfield, N. J., for a research center to cost several million dollars.

The company plans to consolidate its basic and applied research at the new center.

The research center, to be built on part of the former Broadacres Golf Course, will consist of a two-story building with more than 200,000 square feet of floor space.

Special facilities will be installed for evaluation of soaps, detergents, and other household products under conditions duplicating their use in the home. There will be comparable areas for evaluating dentrifrices, shampoos, shaving products and other toilet articles.

Dr. Thomas H. Vaughn, vice president, research and development, will be in charge of the Bloomfield center as well as all other research and development activities of the company.

Pilot plant activities of the Colgate-Palmolive Company will remain at Jersey City, N. J.

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AMP forms substituted amides with esters, anhydrides, and acyl halides. AMP also reacts with alkyl halides, aldehydes, ketones, carbon disulfide, and many other compounds. These reactions suggest the use of AMP in the synthesis of surface-active agents, detergents, and vulcanization accelerators for rubber.

PHYSICAL PROPERTIES

Molecular Weight	89.14
Boiling Point, at 760mm	165°C
Melting Point	30-31°C
Specific Gravity at 20/20°C	0.934
pH of 0.1M Aqueous Solution at 20°C	11.3
Solubility	Miscible with water, aromatic hydrocarbons, alcohols, esters. Insoluble in aliphatic hydrocarbons.

SPECIFICATIONS

Neutral Equiv.	88.5-91.0
Color, APHA, max.	20
Water, by wt., max.	0.8%
Distill. Range	156°C-177°C
Below 161°C, max.	10%
Above 168°C, max.	5%
Odor	Characteristic
Non-volatile matter by weight, max.	0.005%

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TRIS AMINO (Tris [hydroxymethyl] aminomethane) $(CH_2OH)_3CNH_2$

AB (2-Amino-1-butanol) $CH_3CH_2CHNH_2CH_2OH$

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Coal Chemicals

Prices of all higher grades of petroleum cresylic acids were hiked, effective March 1 in some cases, March 5 in others. Increases amounted to 3 cents per gallon on three grades, 4 cents per gallon on another. The raises followed the suit led by producers of coaltar cresylic acids, who instituted a general price increase January 1. The higher petroleum grades were being sold up on spot orders, but poorer grades were in balance.

Coal chemicals were generally well enough diversified to prosper as usual in the atmosphere created by cutbacks in the automotive industry. Production of tires was off somewhat but the decline was modified by lively demand for replacement tires. The effect touched the market for styrene monomer but was offset in large part by stronger demand in butadiene latexes and other non-automotive outlets. Phthalic anhydride was a bit easier but still strong by any other standards than a comparison with its position in the closing months of 1955.

The American Iron and Steel Institute estimated steel production in the week ended March 4 would amount to 98.4 percent of theoretical capacity, equivalent to 2,422,000 tons of steel. This was compared to 2,433,000 tons produced in the week previous, 2,444,000 tons produced in the comparable week a month before and 2,218,000 tons turned out in the corresponding week a year ago.

Price Trends

Advanced

Cresylic Acid, petroleum, 195-214°C, 3c. per gal.
200-222°, 3c. per gal.
211-237°C, 3c. per gal.
220-242°C, 4c. per gal.

Reduced

None

Comparative Price Indexes

(100—1949 average)

Last week	Prev. week	Last month	Mar. 4, 1955
114.89	114.89	114.89	114.63

For Current Prices see Page 9

Basic Products

Cresols—Demand continued to hold up well. Production was keyed high. The supply situation was unchanged. Fractions with high meta-para content were tight. Otherwise, the market was in balance. Prices were stable and unchanged from previous quotations.

Cresylic Acid—Prices of four petroleum grades were raised. Acid in the range 200 to 222°C, previously quoted at 62 to 69c. per gallon in tanklots, depending on sulfur content, was hiked 3c. per gallon to 65 to 72c. per gallon. Acid in the range 220 to 242° C was raised to 62 to 67c. per gallon in tanklots, up 4c. from the previous price range of 58 to 63c. per gallon. The price of acid in the range 245 to 295° C, unchanged at 50c. per gallon in tanklots, was expected to remain at the old level.

The grade in the range 195 to 214° C was hiked 3c. per gallon, bringing the tanklots price to 65c. per gallon. That in the range 211 to 237° C was raised to 61c. per gallon in tanklots, also up 3c. per gallon. In these two grades, the new prices were made effective March 5.

Changes on grades in the ranges 200 to 222° C and 220 to 242° G were made effective March 1 on spot orders. Demand for these acids was so strong that trade was on a basis of allocation to customers of historical standing, and contract business was not a market factor. Pressure on acid in the 245 to 295° C range was not as urgent, and this grade was generally available.

The increases were effected across the board, so that differentials on smaller purchases remained unchanged.

The move was not unexpected. It followed by two months a general increase, effective last January 1, in prices of coaltar cresylic acids.

Light Oils—The situation remained unchanged here. The steel industry's cokeovens continued to pour out benzol and toluol in large volume. Demand continued to blot up benzol stocks wherever and as fast as they appeared. Demand for toluol, while it was strong in the absolute sense, could not cope with the big production figures, and toluol stocks continued to accumulate. Xylol was tight. Prices were stable and unchanged.

Naphthalene—The consensus was that supply and demand were coming into somewhat better balance. Consumers of refined grades were being taken care of to their satis-

Aromatic Chemicals Output: December

Following are statistics for production of certain coal chemicals during December, 1955 as reported by the Tariff Commission and the comparable figures for the month previous. Cokeoven production of benzol, creosote oil, crude naphthalene and toluol is that previously published with other figures reported by the Bureau of Mines. Where no figure is given, it is because available data would have disclosed confidential information or because the data on hand were believed to be incomplete. Dyes are identified by color index or prototype number.

		December 1955	November 1955	Percent Change
Acetanilide, tech. and USP	lbs.	348,930	256,929	+36
Aniline	lbs.	11,075,345	12,054,212	— 8
Benzol, tar distillers	gals.	2,297,391	1,678,597	+37
Cokeoven operators	gals.	16,067,102	15,428,377	+ 4
Total from coal sources	gals.	18,364,493	17,106,974	+ 7
Petroleum operators	gals.	10,121,033	8,439,949	+20
Total from all sources	gals.	28,485,526	25,546,923	+12
Creosote oil, tar distillers	gals.	7,046,289	7,952,322	—11
Cokeoven operators	gals.	2,663,984	2,770,992	— 4
Total	gals.	9,710,273	10,723,314	— 9
Cresols, meta-para	lbs.	2,482,544	1,662,055	+49
Ortho-meta-para	lbs.	1,316,846	1,058,120	+25
Cresylic Acid, refined, all sources	lbs.	4,127,692	4,045,152	+ 2
Dyes, C. I. 202, chrome blue black R	lbs.	.....	.....	....
C. I. 581, direct black EW	lbs.	544,372	368,794	+48
P. 302, naphthol AS	lbs.	.....	.....	....
Monochlorobenzene	lbs.	37,971,810	38,220,980	— 1
Naphthalene, crude, tar distillers	lbs.	24,855,719	24,222,894	+ 3
Cokeoven operators	lbs.	15,245,617	16,279,540	— 6
Total crude	lbs.	40,101,336	40,502,434	— 1
Refined, tar distillers	lbs.	8,701,834	7,633,891	+14
Phenol, tech. and USP, all sources	lbs.	45,353,393	43,494,999	+ 4
Phthalic Anhydride	lbs.	29,748,962	29,979,640	— 1
Styrene, from all plants	lbs.	102,819,360	90,530,464	+14
Toluol, cokeoven operators	gals.	3,352,193	3,307,129	+ 1
From other sources	gals.	13,844,442	12,866,656	+ 8
Total from all sources	gals.	17,196,635	16,173,785	+ 6
Xylol, from all sources	gals.	8,858,918	10,771,571	—18

Coal Chemicals

faction, but crude naphthalene was still short in general.

Intermediates

Cyclohexylamine — This intermediate was quoted last week at 45c. per pound in tanklots at the works. Drum prices were 46½c. in carlots and 48½c. in less carlots.

Dicyclohexylamine — Producers were quoting a tanklot price last week of 49½c. per pound at the works. Trade was practically at a standstill at that figure. Drum prices were 51c. in carlots and 51¾c. in less carlots.

2,4-Dinitrochlorobenzene — Material crystalizing at 48° C was offered last week at 20c. per pound in tanklots, freight allowed. Drum prices were 20¼c. in carlots and 20¾c. in less than carlots.

For material crystalizing at 46½° C, quotations were 15c. per pound on tanklot orders, freight allowed in the east, 15¼c. in carlots, drums, 15¾c. in less than carlots, drums.

Phthalic Anhydride—Demand was off somewhat, presumably as a result of the cutbacks in Detroit. Producers were acquiring stocks, but these aggregated no more than a normal inventory. They emphasized that the decline in this trade was moderate and that business was still good by any standards except a comparison with the booming fourth quarter of 1955. High production quotas, limited only by the availability of crude naphthalene, were maintained. Prices were unchanged.

Styrene Monomer—Tire production eased, but the non-automotive segment of the demand for styrene had picked up, that for latex foam, styrene butadiene latexes and sponge, for example. Over-all demand was off somewhat, decidedly less than it was in fourth quarter 1955. In some channels, demand was stronger than it had been in first quarter 1955, however.

While demand for new car tires was weaker, industry sources reported lively trade in replacement tires. Production was geared high, and a run on inventories was looked for when the new automobile models go into production. Prices were steady at the previously quoted levels.

Coal Chemicals

Estimated output of coal chemicals recovered from cokeoven operations during the week ending March 4 was as follows:—

Ammonia liquor	lbs.	941,389
Ammonium sulfate	lbs.	40,084,930
Benzol	gals.	3,583,350
Coaltar	gals.	17,613,075
Creosote oil	gals.	683,266
Naphthalene, crude	lbs.	3,811,105
Pyridine, refined	lbs.	13,665
Toluol	gals.	789,552
Xylol	gals.	227,755

Climax Molybdenum Elects Reed a Member of Board

Gordon W. Reed, chairman of the board of Texas Gulf Producing Company, has been elected a director of Climax Molybdenum Company, New York.

Mr. Reed began his career with Hanley Company, Bradford, Pa. He was elected a vice-president in 1925 and served in that capacity until 1941. In that year Mr. Reed was elected president of Texas Gulf Producing Company and has served as chairman since 1945. He is also a director of Apex Smelting Company, Brockway Motor Company and L. O. F. Glass Fibers Company.

Foote Reports Retirement Of Research Vice-President

Dr. S. C. Ogburn, jr., vice-president for research and development, has retired from Foote Mineral Company, Philadelphia. While retiring as an officer of the company, he will continue to serve as a management consultant.

Dr. Ogburn joined Foote in 1948 as manager of research and development, became a member of the board in 1949 and was named vice-president in 1951.

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Naphthalene Production Up 50 Percent Last Year

United States production of all grades of naphthalene in 1955, after provision for "upgrading" from low melting point types to purer grades, amounted to approximately 443,000,000 pounds, an increase of 50 percent over the 1954 rate, the Chemical and Rubber Division of Business and Defense Services Administration said last week.

In a special survey on naphthalene, contained in the February issue of the division's industry report, the agency said that total naphthalene supply, including imports, amounted to more than 563,000,000 pounds in 1955, or 56 percent more than the supplies of 1954.

The cokeoven will continue to be the source of naphthalene for some time to come, although other sources of supply are under investigation, the report said.

Naphthalene consumption amounted to 381,000,000 pounds in 1954, almost 6 percent higher than the supply available in that year, indicating a small reduction in inventories. About 80 percent of the naphthalene consumed was used for the production of phthalic anhydride, 5 percent went toward insect repellants, and the rest went into various miscellaneous uses.

Selenium Export Rules Get Certain Exemptions

The Bureau of Foreign Commerce announced last week special conditions under which exports of certain selenium materials will be licensed until further notice. The new conditions were established March 1 to enable the bureau to reserve the limited quantity available for export to meet essential foreign requirements.

Under the restrictive licensing criteria, first consideration will be given to those license applications identified for military end uses. The remainder of the quantity available for export will be licensed for those countries normally dependent upon the United States for a portion of their selenium requirements.

The selenium materials covered by the order include powder, metal, ferroselenium, and selenium-containing chemical compounds including pigments.

Puerto Rico Surveyed As Synthetic Fiber Site

A synthetic fiber industry may be in the offing for Puerto Rico, providing production, marketing and research problems are first ironed out in the continental United States, according to a survey conducted by Massachusetts Institute of Technology.

Waste gases from Puerto Rico's oil refineries, as well as bagasse, for production of furfural for nylon, were envisioned in the report as possible raw material sources for chemical and synthetic fiber manufacture.

Pitts. Plate Names Culler

Appointment of Theodore E. Culler to the newly-created post of assistant manager of operations of the mechandising division of Pittsburgh Plate Glass Company, Pittsburgh Pa., has been announced. Prior to his appointment, Mr. Culler had served as manager for Pittsburgh Plate's Baltimore, Md., distributing branch during the past year.

DISTRICT SALES MANAGER: Leslie W. Boyer, appointed sales manager of the Indianapolis, Ind., district by Republic Creosoting Company.

Davison Now Marketing Fertilizer With Molybdenum

One of the first US commercial fertilizers to contain the trace element molybdenum is now being marketed by Davison Chemical Company, Baltimore, Md., a division of W. R. Grace & Co. The product is "Nurish," a water-soluble high concentration (20-20-20) fertilizer.

Davison introduced "Nurish" about three years ago, but has only recently incorporated molybdenum in the formulation. Originally developed for garden and small home use, "Nurish" is now widely used by truck farmers and orchard growers.

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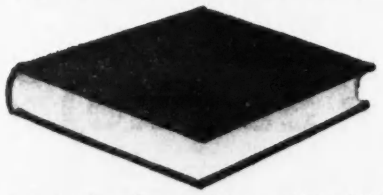

Here is a systematic presentation of some of the most useful information that has been amassed about the pollution of air; its effects on human, plant, and animal health; the measures that are being taken to control it successfully; the legal and administrative problems that are being overcome in connection with pollution prevention and control.

AIR POLLUTION

Proceedings of the United States Technical Conference on Air Pollution

Sponsored by the Interdepartmental Committee on Air Pollution

Chairman: Louis C. McCabe, formerly Chief, Office of Air and Stream Pollution, Department of the Interior

847 pages, 7½x10, 285 illus., 85 tables, $12.50

These are the specific, authoritative facts presented at a top-level government conference on pollution—a conference that brought together experts in every phase of the problem. Here is the picture of how contamination of the air affects humans, livestock, and crops and of which chemicals are really dangerous and which are not. Here are detailed analyses of different contaminants, with methods for finding the nature and degree of pollution. Included is a discussion of the very latest equipment for pollution control, with an explanation of how each kind works and what its limitations are. The section on instruments describes and explains best practices of measuring the kind and degree of pollution. One section covers the legal problems involved in drawing up and enforcing pollution control statutes. The interrelation of weather and climate and pollution problems is fully treated.

A few of the 97 topics covered:

- Fluoric contamination of livestock
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- Use of the electron microscope
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- Chemical analysis of pollutants
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- Urea

Agricultural Chemicals

US offers against the $17.5 million Korean tender constituted the largest part of some 700,000 metric tons of fertilizers offered, including most of about 220,000 metric tons of ammonium sulfate and all of about 84,000 metric tons of ammonium nitrate offered. (It should be noted that approximately 23,000 tons of ammonium sulfate which was offered was not authorized by any manufacturer, and, therefore, actual offers of ammonium sulfate should be calculated as slightly less than 200,000 tons).

Offers of various materials included about 130,000 tons by Japan, more than 100,000 tons from Europe and 10,000 tons from Africa. A decision was expected in about two weeks.

Included in the offers, in metric tons stated in round numbers, were 215,000 tons of superphosphate; 44,000 of triple superphosphate; 30,000 tons of fused phosphates; 13,000 tons of urea offered by Japan and Italy; 60,000 tons of calcium ammonium nitrate with dolomite and 19,000 tons of ammonium sulfate nitrate, all offered from Europe; 20,000 tons of basic slag and 12,000 tons of potash.

The Pakistan tender for about 40,000 metric tons of ammonium sulfate was opened on February 28, and it appeared some awards would be made to European producers.

Price Trends

Advanced

Blood, dried, Chicago, 25c. per unit-ton.
Fishmeal, $1 per ton.
Fishscrap, $1 per ton.

Reduced

None

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Mar. 4, 1955
110.89	110.77	110.63	111.03

For Current Prices see Page 9

Animal and Plant Foods

Ammonia, Anhydrous—The Census Bureau reported 272,748 short tons was synthesized during December, as compared to output of 268,859 short tons in November. Stocks accumulated from 132,835 to 142,370 short tons during December.

Ammonium Sulfate — Bureau of the Census reported synthetic production of technical grade was up to 208,914,000 pounds in December, compared to 184,570,000 pounds turned out in November. Added to figures previously given out by the Bureau of Mines representing by-product cokeoven production, the totals were 376,300,683 pounds for December and 345,411,189 pounds in November.

Stocks of synthetic rose from 231,674,000 pounds at the end of November to 246,956,000 pounds a month later.

Animal Proteins—The price of fishmeal, variously quoted at $140 and $142 per ton in the previous week, settled at $141 per ton. A steady market prevailed at that price. Supply and demand were fair.

The scrap price, fluctuating between $136 and $138 a week earlier, firmed up at $137. The market at that price was described as steady and demand fair. The supply was very strictly limited.

Dried blood went up 25c. in Chicago, to $5 per unit-ton. The New York price remained at $4.75 per unit-ton.

Production of fishmeal and scrap reported to the Fish and Wildlife Service by firms normally accounting for about 90 percent of total production amounted to 238,986 tons in 1955, compared to 231,407 tons in the year previous. The December figures were 8,781 tons in 1954, 13,102 tons in 1955.

Imports in the first eleven months of 1955 were off 34 percent from those of the corresponding period in the previous year, the service reported, down from 134,084 to 87,828 tons. However, figures for the month of November showed a sharp increase in 1955 to 9,921 tons, compared to 5,196 tons imported in November, 1954.

Castor Pomace—A little more interest was shown in castor pomace, for which sales were in fairly good volume at $40 per ton. Volume was limited, however, by scarcity of material. Brazil was processing beans and shipping the oil. Major pomace production facilities here were shut down on account of the shortage of raw material.

Calcium Phosphate, Dibasic — Production, on a basis of 100 percent calcium biphosphate, rose from 14,595 short tons in November to 15,523 short tons in December, the Bureau of Census reported. The bureau said stocks declined during December from 3,058 to 2,547 short tons.

Potassium Muriate — Shipments were running below normal for this time of year. Producers feared there would be difficulty finding enough box cars fast enough when the potential demand becomes a live market factor.

Pesticides

Gypsy moths have invaded northeastern Pennsylvania, northern New Jersey and Long Island and have extended their infestation northward in Vermont and westward and northward in New York, cooperative surveys indicated.

On the other hand, the Department of Africulture's weekly report on insects said the moth was scarcer than it had been in several years in the long infested area of New England and eastern New York. Improvement in that area was attributed to applications of DDT over more than a million acres last spring and the prevalence of wilt disease.

USDA reported the core of a local infestation at Lansing, Mich., had been brought under control but said some work remained to be done in the fringe areas.

Lindane — Major producers were selling the 99 to 100 percent technical grade to formulators and distributors for $2.65 per pound in lots of 2,000 pounds or more. Smaller quantities were priced at from $2.65 to $3.25 per pound, depending on size of order. One source quoted $2.65 per pound in 1,000 pound lots, $2.75 per pound for 200 pounds and $2.85 for 100 pounds. Terms were f.o.b. to the nearest stock point and freight allowed to destination on orders amounting to $100 or more. The material was packaged in fiber drums of 100 pounds net.

A 95 percent wettable powder, 95 percent gamma isomer of BHC, was quoted at $2.70 per pound in 2,000 pound lots and $2.85 per pound in 100, 200 and 1,000 pound lots in fiber drums of 100 pounds net, shipping terms as outlined above. The 25 percent wettable powder was offered, with the same shipping terms, at $1 per pound in 1,000 and 2,000 pound lots, $1.05 in 200 pound lots and $1.09 in 100 pound lots. The package in this case was a fiber drum of 50 pounds net.

The following figures, compiled by the Tariff Commission, indicate production of specified organic pesticides, in pounds:—

	Nov.	Dec.
Dichlorodiphenyltrichloroethane (DDT)	10,310,389	10,991,192
2,4-Dichlorophenoxyacetic acid (2,4-D)*	2,932,820	2,402,896
Ester and salts	2,530,132	1,446,619
Acid equivalent of 2,4-D esters and salts	1,819,501	1,179,766
Hexachlorocyclohexane (BHC)	3,477,570	4,892,565
Gamma isomer content of BHC	628,392	902,239
Tetramethylthiuram sulfides	1,048,231	547,606
2,4,5-Trichlorophenoxyacetic acid (2,4,5-T)	.....	.....

* Includes 2,4-D acid produced, separated and consumed in plant in the manufacture of its derivatives.

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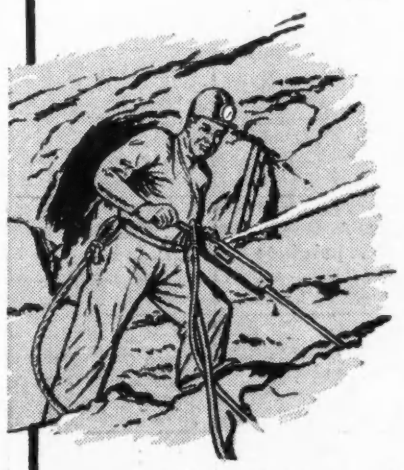

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Dry vitamin A and D_2

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	Type & Name	Usage	Potency (in U.S.P. units per gram)	Additive	Stability	Mesh Size
LIQUID TYPES	**P1MO** Vitamin A palmitate *(liquid)*	In tablets, aqueous dispersions, capsulated products	1,000,000	Edible oil only, for standardization	Excellent	—
	P1MO/BHA Vitamin A palmitate *(liquid)*	as above	1,000,000	Edible oil plus antioxidant (butylated hydroxy-anisole). Note 1.	Excellent	—
	P1.3 Vitamin A palmitate *(liquid)*	For oil-free prepara-tions	1,350,000 to 1,450,000	None	Excellent	—
	A1MO Vitamin A acetate *(liquid)*	In oil solutions and gelatin capsules	1,000,000	Edible oil only, for standardization	Excellent	—
SPECIAL	Type P1.8 *(liquid)* Vitamin A palmitate	For research and special production	1,650,000 to 1,800,000	None	Needs special handling	—
	Type A2.9 *(crystalline)* Vitamin A acetate		2,800,000 to 2,900,000	None	Needs special handling	—
DRY TYPES	Type 325A-32.5D Vitamin A acetate & Vitamin D_2 *(dry)*	For tablets, capsules, vitamin-fortified powdered supplements	A—325,000 D_2—32,500	None	Excellent	40 and 60
	Type 325 Vitamin A *(dry)*		325,000	None	Excellent	40 and 60
	Type 500 *(dry)* Vitamin A acetate	For dry prepara-tions: tablets, capsules, vitamin-fortified powdered supplements	500,000	None	Excellent	40 and 60
	Type 500A-50D Vitamin A acetate & Vitamin D_2 *(dry)*		A—500,000 D_2—50,000	None	Excellent	40 and 60

Note 1 Antioxidant added at 10 mg. per 1,000,000 units of vitamin A.

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Drugs, Fine Chemicals

A price reduction in carotene last week was the latest in a rash of recent price cuts in the synthetic vitamin group. Pure, crystalline b-carotene was reduced 5 cents per gram while a 24 percent suspension of beta carotene in vegetable oil was reduced 1.2 cents per gram. In the past few weeks, riboflavin, thiamine, ascorbic acid and pyridoxine were reduced in price, some, as in the case of thiamine salts and ascorbic acid, as much as 25 percent. As of midweek, it was not known whether natural carotene prices would be similarly reduced, but it appeared likely in view of overall circumstances.

Elsewhere in the market price stability was maintained. The heavy demand which characterized this market since last fall continues. Manufacturers of such fine chemicals as tartrates, citric acid and sodium benzoate were beginning to anticipate a seasonal upturn in consumer inquiry with the approach of spring and the consequent pickup in canning and bottling operations. Substantial amounts of the tartrates as well as citric acid and sodium benzoate are used in soft drink production.

Major medicinal drugs such as caffeine, acetophenetidin and aspirin continue in heavy demand. The coming into the market of many new cold remedies in recent months has correspondingly boosted the demand for these componuds since aspirin, phenacetin and caffeine generally form the base for most types of cold remedies.

It was conjectural at this time to state whether there might be further reductions in the vitamin line at this time. While competition in vitamin A is significant among domestic producers, there has not been any problem of competing with lower priced imports as in the instance of thiamin and ascorbic acid. The alkaloids continued to move at a fair volume, on the whole. There has been increasing trend in this group for synthetic materials to gradually take over and it appeared to be only a matter of time until many of the current alkaloids are displaced by either more effective drugs or synthetic production such as in the case of ergot alkaloids which are now synthetically produced.

Price Trends

Advanced
None

Reduced
b-Carotene, pure crystalline, 5c. per gram.
in oil, 1.2c. per gram.

Comparative Price Indexes
(100—1949 average)

Last week	Prev. week	Last month	Mar. 3, 1955
65.84	65.84	66.40	67.29

For Current Prices see Page 9

Acetanilide — Demand for USP acetanilide was reported to be at routine levels. Consumption of this drug compound has become more or less stabilized with overall usage limited to a few large consumers. Supplies were adequate to cover current trade needs while prices were unchanged.

The Tariff Commission recently reported production of both technical and USP grades of acetanilide at 348,930 pounds compared to 256,929 pounds in November last year.

Acetylsalicylic Acid—Demand for aspirin (acetylsalicylic acid) continues at a brisk seasonal rate. Some suppliers reportedly had difficulty in meeting shipments on time. Due to the sustained press of orders there were some delays in filling orders but on the whole, the supply situation was expected to improve as the seasonal high in consumption eases off with the coming of spring.

Price quotations were steady and it appeared that they would continue in the immediate future. The price rise which went into effect late last year was expected to obviate any further advances. Production of acetylsalicylic acid in December aggregated 1,606,170 pounds compared to 1,384,996 pounds in November.

Ascorbic Acid—The market continued steady last week following the recent drastic price reduction. Overall consumption of vitamin C was almost certain to rise, it was felt, in view of the lower price set. This was particularly true with respect to its use in food products. It was noted that increasingly greater quantities of ascorbic acid were being used to fortify foods, especially in frozen products and fruit juices.

Production of ascorbic acid and salts totaled 263,228 pounds in December compared to 206,350 pounds in November last year, according to the Tariff Commission.

b-Carotene—Last week saw beta carotene follow in the recent downward price trend in synthetic vitamins. Pure, crystalline b-carotene was reduced 5c. per gram while a 24 percent suspension of beta carotene in oil was cut 1.2c. per gram. The former was currently quoted at 35c. per gram and the latter at 8.4c. per gram. The reduction was the first price change in this item since it became commercially available last year.

Molasses—Feed molasses markets were steady with prices generally unchanged during the week ending February 21, 1956, the Department of Agriculture reported. At New Orleans blackstrap molasses was unchanged at 13-13½c. per gallon, with very few quotations above and below that level. At Wilmington, N. C. and Corpus Christie, Texas, prices advanced to $25.65 per ton. The demand for blackstrap remained good to moderate, with the supply adequate at most eastern markets, except Savannah, Jacksonville and Norfolk where supplies remained limited. West coast demand continued good with supplies adequate. Prices were unchanged at $25-$26 per ton.

Citrus molasses prices were unchanged and were quoted at $18-$20 per ton. Sales of Puerto Rican blackstrap are now reported at 11¼c. per gallon, f.o.b. port, for the week ending February 17, 1956. This is the highest price reported from Puerto Rico during current crop production.

Niacin—The market was reported to be running at a steady pace with inquiry good and supplies ample to cover trade requirements. Increasing amounts of niacin are being used in foods, it was noted, in addition to pharmaceutical applications. Prices were unchanged although the future was uncertain in view of the large number of price reductions this month in the synthetic vitamins group.

Production of niacin and niacin amide was reported to have aggregated 154,591 pounds in December according to the Tariff Commission compared to 202,269 pounds in November, 1955.

Penicillin—Demand continued at a sustained seasonal pace while supplies were adequate to cover consumer requirements. Current price levels allow only a narrow margin of profit, according to producers and it appeared that this situation would continue in the immediate future.

As a result, manufacturers have increased their efforts to lower raw material costs, in some instances turning to the usage of molasses and corn syrup rather than crude lactose as nutrients in the manufacturing process.

Production of penicillin and salts (bulk material only) totaled 32,690,187,000,000 International units in

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Drugs, Fine Chemicals

December, 1955, according to the United States Tariff Commission, compared to 25,042,558,000,000 units in November.

Streptomycin—Demand continues seasonally active while the price picture was unchanged. Supplies were generally regeared to be ample to cover trade requirements while inquiry was steady.

Output of streptomycin in December of last year amounted to 5,793,663 grams compared to 6,097,478 grams in November, the Tariff Commission recently reported. Production of dihydrostreptomycin amounted to 19,311,946 grams compared to 12,889,431 grams in November.

Sulfa Drugs—Demand for sulfa drugs was reported to be moving at a steady pace. There continues to be emphasized the use of sulfonamides in combination with antibiotics. Manufacturers of sulfa drugs report a steady pickup in sulfonamide consumption in such usage. With the appearance of more bacterial resistance to specific antibiotics, it was claimed that the trend to sulfa drugs was gaining strength. Because sulfonamides produce less drastic changes in the normal flora of the body than do the antibiotics, their use is attended by less risk of superimposed infections. In many diseases sulfonamides are as effective as antibiotics. In some diseases the combination of an antibiotic and a sulfonamide produces the best results.

Production of sulfa drugs (bulk material only) in December totaled 220,450 pounds according to the United States Tariff Commission compared to 291,006 pounds in November, 1955.

Thiamine—Following the recent price reduction in the salts of this vitamin, prices were steady. Demand was reported to be generally good, reflecting the establishment of the lower schedule. Lower priced imported thiamine had been undercutting domestic producers for some time and it was expected that domestic makers would be able to compete on a more equitable basis.

Production of thiamine derivatives totaled 18,338 pounds in December compared to 14,018 pounds in November last year, the Tariff Commission recently reported.

Botanicals

The local market continues spotty, according to trade reports. With the winter almost over, inquiry for botanicals used in cough and cold remedies has eased up substantially. Supplies of most items were ample to meet current inquiry and expected to continue in the immediate future. Buchu leaves was in somewhat tight supply, however, it was noted. Formerly active items such as papain and ergot appeared to be a thing of the past. Ergot has been eclipsed by the development of a synthetic process for making ergot alkaloids thus resulting in a much diminished call for the natural product. Consumer demand for papain appears to be well supplied and consequently the market is easy.

The severe winter which Europe has been experiencing was almost certain to cause a considerable disruption of botanicals output from that area. According to reports from source, the frost was so severely penetrating as to cause trees to split open and roots of many perennials to freeze solidly, thus limiting the production of many botanicals in the forthcoming year.

Pharmaceutical Foundation Re-Elects James Kerrigan

James J. Kerrigan, chairman of the executive committee of Merck & Co., Rahway, N. J., was re-elected president of the American Foundation for Pharmaceutical Education at the fourteenth annual meeting of the foundation last week. Francis C. Brown, president of Schering Corporation, was re-elected vice-president.

Other officers, all re-elected, are treasurer, Howard B. Fonda, senior vice-president of Burroughs Wellcome & Co. (U.S.A.), Inc.; counsel, James F. Hoge, Rogers, Hoge & Hills, and secretary, W. Paul Briggs, former dean of George Washington University.

Re-elected to directorships were:—Alvin G. Brush, chairman of the board, American Home Products Corporation; Richard A. Deno, professor, University of Michigan; Hugo H. Schaefer, dean, Brooklyn College of Pharmacy; Charles R. Walgreen, jr., president, Walgreen Bros. Stores. Newly elected were:—John G. Bill, president of Sharp & Dohme, division of Merck, and John A. Crozier, general manager of Calvert Drug Company.

Dr. A. J. Brumbaugh, former president of Shimer College, was re-elected a member of the Board of Grants.

Dr. J. Douglas Brown, dean of the faculty, Princeton University, addressed over 125 patrons and friends of the foundation at the annual appreciation luncheon. His subject was "Creative Manpower."

Dr. Brown said that "America is in an international race for survival. The outcome of the race will turn on which force, which civilization, will produce the most creative manpower and the most creative knowledge to assure its survival."

"Whether scientists, engineers, or executives, teachers, ministers or statesmen, we shall be in need, in the decades to come, of men of high talent as never before, even in 1776 or 1863." To meet this need, Dr. Brown said "there must be the effective cooperation of the four great perpetual and dynamic institutions in the American systems: — The State, the Church, the University, and the Corporation."

Searle Buys Acreage

G. D. Searle & Co., Chicago, has acquired 130 acres of land in Wheeling, Cook County, Ill., to hold as a site for long range expansion of the company's productive and research facilities. The firm is considering the possibility of expanding one of its major manufacturing operations. However, the acreage will be continued as a farm this season.

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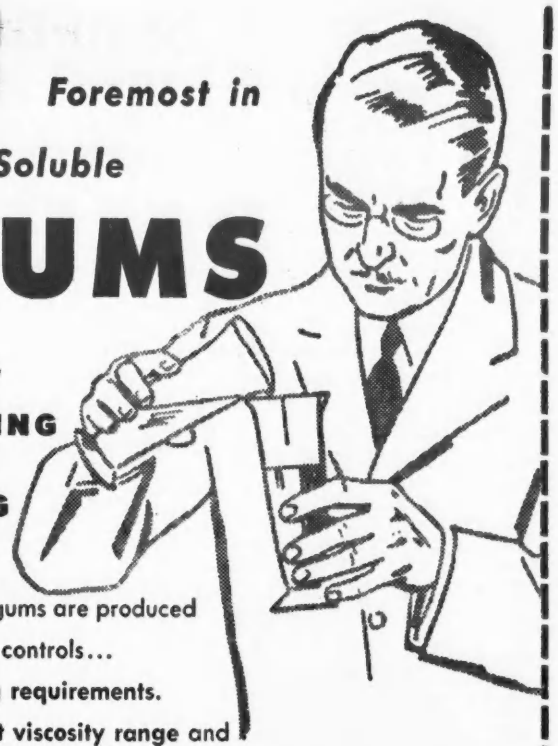

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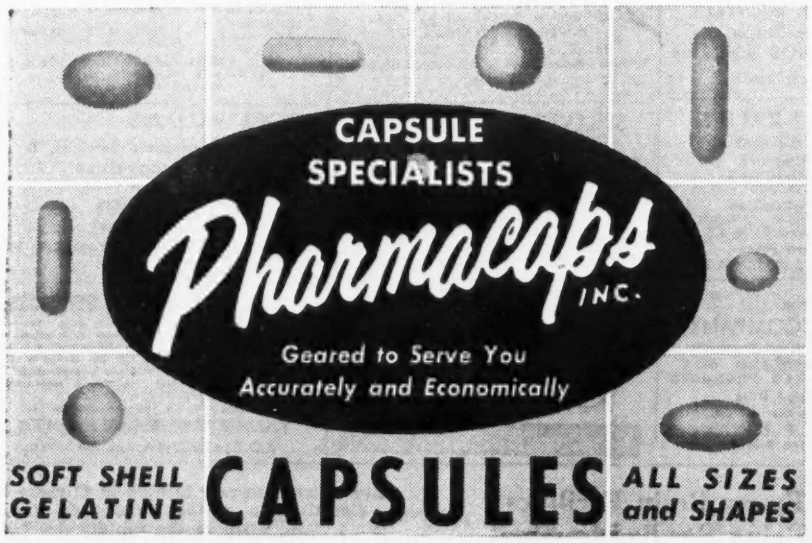
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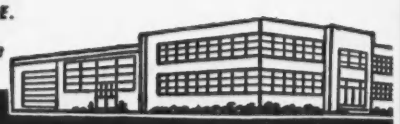

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Aluminum oxide, 10,000 lbs., grain, inv. 216-28, Mar. 12, Supply Officer, Naval Air Station, Navy Dept., Corpus Christi, Tex.

Calcium chloride, 120 dms., inv. DA-49983, Mar. 13, Gen. Services Adm., Region 7, Business Service Center, 1114 Commerce St., Dallas, Tex.

Di-2-ethylhexylphthalate, 60,000 lbs., inv. 174-80, Mar. 16, Supply Officer, Naval Powd. Factory, Navy Dept., Indian Head, Md.

Dimethylphthalate, 45,000 lbs., inv. 174-81, Mar. 16, Supply Officer, Naval Powd. Factory, Navy Dept., Indian Head, Md.

Ethylene glycol, 8,372 qts. and 240,117 gals., inhibited, East & West Coast, inv. FNW-4-W-1965-A, Mar. 7, Gen. Services Adm., Business Service Center, Region 3, 7th & D Sts., S.W., Washington 25, D. C.

Fertilizer, 72 tons, nitrogen, potash, etc., inv. 38, Mar. 12, Contracting Officer, Moody AFB, Ga.

Insecticides, 29,000 lbs. benzene hexachloride, inv. 46, Mar. 15, Purchasing & Contracting Office, Patrick AFB, Fla.

Paint, 800 gals. interior paint, inv. 43, Mar. 12, Contracting Officer, Abilene AFB, Tex.; 190 gals. oil base paint, 120 gals. semi-gloss paint, inv. 189, Mar. 6, Att: MRSPSA, Rome AF Depot, Griffiss AFB, Rome, N. Y.; 3,300 gals. clear dope and lacquer thinner, inv. ENG-51, Mar. 7, Corps of Engnrs., District Engnr., New Orleans District, Foot of Prytania St., New Orleans, La.; 1,222 gals. oil interior paint, 220 gals. rubber base paint for concrete floors, 36 gals. lusterless, sand obliterating lacquer, 400 gals. primer, enamel and undercoat, interior, etc., 10 items, inv. KC-43517, Mar. 6, Gen. Services Adm., Business Service Center, 2306 E. Bannister Rd., Kansas City 14, Mo.

15,950 gals. exterior and interior gloss enamel, East & West Coast, inv. 383-1050, Mar. 14, syn. enamel, inv. 383-840, Mar. 6, 1,265 gals. spraying lacquer, 692 gals. syn. semi-gloss enamel, East & West Coast, inv. 383-1030, Mar. 9, 5,000 gals. exterior, concrete and masonry, ready mixed paint, East & West Coast inv. 383-1012, Mar. 12, 3,295 gals. same, 4,390 gals. exterior, oil paint, 85 gals. rust inhibiting enamel, East & West Coast, inv. 383-993, Mar. 9, 431,500 gals. non-flammable paint remover compound, water rinsable, inv. 383-1138, Mar. 15, Aviation Supply Office, Navy Dept., 700 Robbins Ave., Phila. 11, Pa.

Silver cyanide, 660 lbs., powd., Jacksonville, Fla.; Alameda, Calif.; inv. 383-1167, Mar. 13, Aviation Supply Office, Navy Dept., 700 Robbins Ave., Phila. 11, Pa.

Sodium hypochlorite, 1,200 contrs., inv. DA-49983, Mar. 13, Gen. Services Adm., Region 7, Business Service Center, 1114 Commerce St., Dallas, Tex.; 1,400 gals. sodium hypochlorite solution, for period from Apr. 1, 1956, thru Mar. 31, 1957, for Water Operations Div., D.C., inv. 18687-M, Mar. 7, District of Columbia Gov., Procurement Office, Room 404, 499 Penna. Ave., N. W., Washington 1, D. C.

Sodium metasilicate, 60 bgs., inv. DA-49983, Mar. 13, Gen. Services Adm., Region 7, Business Service Center, 1114 Commerce St., Dallas, Tex.

Sodium phosphate, tribasic, 1,920 16-oz. contrs., 17,500 100-lb. drms., 360 5-lb. cans, inv. DA-49936, Mar. 13, Gen. Services Adm., Region 7, Business Service Center, 1114 Commerce St., Dallas, Tex.

Brazil Oiticica Appoints

Brazil Oiticica, Inc., New York, has named Carl A. Lechner Company, Chicago, to handle its "Cicoil" raw liquid oiticica oil in Illinois, Indiana, Wisconsin and Iowa.

Epoxy Resin Facilities Being Readied by Shell

By April Shell Chemical Corporation will be producing market development quantities of new epoxy resins at a unit it is building at its Houston, Tex., plant.

The unit will produce new developmental resins and curing agents for customers' experimental use and small commercial production. Shell believes the limits of "Epon" resins versatility has yet to be defined. In the seven years since the company developed them, the resins have set new standards for the surface coating industry due to their unique combination of adhesion, chemical resistance and flexibility, Shell said.

DuPont Announces Plans For Venezuelan Paint Unit

Plans for a paint plant in Venezuela, to produce finishes for the Venezuelan market, have been announced by E. I. du-Pont de Nemours & Co., Wilmington, Del.

The finishes will be manufactured and sold by the company's recently formed Venezuelan subsidiary, DuPont de Venezuela, C.A., whose sales and administrative offices are now located in Caracas.

Construction of the DuPont de Venezuela, C.A., plant in the rapidly developing industrial section of Valencie, about 100 miles west of Caracas, is scheduled to begin in the near future. Its products will include lacquers, enamels, paints, varnishes, resins, and thinners for the automotive, automotive refinish, industrial, household and maintenance fields.

Monsanto Obtains Interest In Spanish Chemical Firm

Monsanto Chemical Company, St. Louis, Mo., now has an equity interest in Etino-Quimica, S. A., of Barcelona, Spain, as a result of a pact signed last week by the Spanish firm and Monsanto Overseas, S. A. For its share of the business, Monsanto Overseas will provide Etino-Quimica with machinery, equipment and technological aid.

Etino-Quimica presently has plant facilities at Monzon, Spain, for the production of polyvinyl chloride. The agreement with Monsanto provides for the expansion of the polyvinyl chloride facilities and the building of polystyrene production facilities. Work to accomplish both projects already is under way.

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Obituaries

Dr. A. J. Cipriani

Dr. A. J. Cipriani, research director of the biology division of Chalk River, Ont., atomic energy plant, died February 23 in Deep River, Ont. He was forty-seven years old.

Dr. Cipriani was to have been Canada's representative on a United Nations agency to study the genetic effects of atomic radiation on humans.

Dr. Walter R. Ingalls

Dr. Walter R. Ingalls, former director of the American Bureau of Metal Statistics, died February 25 in Boxford, Mass. He was ninety-one years old.

Dr. Ingalls was also formerly director of the American Institute for Weights and Measures, and from 1905 to 1919 was editor of *The Engineering and Mining Journal.*

Howard A. Coffin, former vice-president of White Star Refining Company, and general manager for the Michigan-Ohio division of Socony-Vacuum Oil Company, died February 28 in Washington, D. C. He was seventy-nine years old.

Lewis H. Haupt, retired project engineer for E. I. duPont de Nemours & Co., Wilmington, Del., died February 24 in that city. He was sixty-six years old.

Fergus F. Wallace, former president and board chairman of Wessel, Duval & Co., New York, died February 24 in Brooklyn, N. Y. He was fifty-seven years old.

Alcohol Stamp Procedure For Export Items Modified

The alcohol and tobacco tax Unit has modified its procedures for issuance of export stamps required to be placed on distilled spirits and alcohol withdrawn for exportation to provide that the stamps shall be issued by the storekeeper-gaugers rather than by district directors of internal revenue.

The change in procedure was made because it has been the policy since January 1, 1955, to make no charge for such stamps and it would therefore be more convenient that the stamps be issued by the storekeeper-gauger, as in the case of wholesale liquor dealers' stamps.

The agency said that where export stamps are required to be used proprietors will no longer submit the withdrawal application and report of gauge to the district directors for issuance of such stamps. Instead, the storekeeper-gauger will issue the export stamps to the proprietor when the permit for removal has been executed.

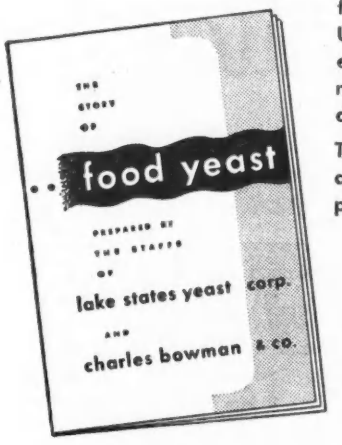
Bristol-Myers Unit Elects 2 Assistant Vice-Presidents

Dr. Wilhelm Reiss and Dr. George L. Wolcott have been elected assistant vice-presidents of Bristol-Myers Products Division.

Dr. Reiss joined the division in 1953 as scientist-in-charge of analytical and physical chemistry. In 1954 he was promoted to director of research and development, his present position.

Dr. Wolcott joined Bristol-Myers in 1946. He became assistant medical director for Bristol-Myers in 1946, and medical director, his present position, the following year.

Torula Yeast accepted for inclusion in next supplement of U.S.P. XV



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SULFATE—1,103 bgs, Philipp Bros Chemicals, Bremen
AMMONIUM BICARBONATE—100 dms, Chemical Manufacturing Co, Liverpool
BIFLUORIDE 200 bgs, Interstate Chemical Corp, Bremen
200 bgs, Bremen
CARBONATE—36 dms, Glasgow
PERSULFATE—50 dms, Lo Curto & Funk, London
AMYRIS OIL—2 dms, Polak & Schwarz, Port Au Prince
1 dm, Roubechez Inc, Port Au Prince
5 dms, Olfactors Inc, Miragoane
2 dms, Norda Essential Oil & Chemical Co, Port Au Prince
1 dm, Olfactors Inc, Port Au Prince
3 dms, Dodge & Olcott, Miragoane
ANILINE DYES—14 cans, Hensel Bruckmann & Lorbacher, Hamburg
8 dms, Gorman & Andersen, Hamburg
21 dms, Hensel Bruckmann & Lorbacher, Hamburg
2 dms, Heemsoth Kerner, Liverpool
3 dms, Hensel Bruckmann & Lorbacher, Bremen
30 dms, Sandoz Chemical Works, Havre
1 dm, C A Haynes, Rotterdam
4 dms, Hensel Bruckmann & Lorbacher, Rotterdam
14 dms, Rotterdam
ANTIMONY REGULUS—150 cs, C Gitlan, Antwerp
ARABIC GUM—100 bgs, Brown Bros, Port Sudan
254 bgs, Irving Trust Co, Port Sudan
259 bgs, National City Bank, Port Sudan
404 bgs, Chase Manhattan Bank, Port Sudan
ASBESTOS FIBER—4,012 bgs, Johns Manville Corp, Beira
ASCORBIC ACID—18 dms, Mitsubishi International Corp, Yokohama
BARIUM CHLORIDE—100 bgs, Naftone Inc, Antwerp
OXIDE—1 dm, Lo Curto & Funk, London
BEESWAX—30 bgs, Schutte & Focke, Ciudad Trujillo
50 bgs, Machado & Co, Ciudad Trujillo
30 bgs, C E Hamann, Tampico
150 bgs, Marcel Valvet, Ciudad Trujillo
12 bgs, La Habana
19 bgs, Havana
35 bgs, Puerto Plata
BLANC FIXE—800 bgs, C J Osborn Co, Rotterdam
BUTTONLAC—100 bgs, Mac Lac Co, Calcutta
CADMIUM—55 cs, Antwerp
CALCIUM TUNGSTATE—14 dms, Silvey Shipping Co, Rotterdam
CAMPHOR OIL—10 dms, Givaudan Corp, Kobe
CANAIGRE ROOT—78 bgs, Vera Cruz
CANDELILLA WAX—626 bgs, Tampico
CARAWAY SEED—200 bgs, Chase Manhattan Bank, Rotterdam
250 bgs, A Gronowitz, Rotterdam
100 bgs, Levy & Levis Co, Rotterdam
50 bgs, P Olender & Co, Rotterdam
150 bgs, I Grob, Rotterdam
100 bgs, Joel Bieler, Rotterdam
200 bgs, Louis Furth, Rotterdam
100 bgs, Levy & Levis Co, Rotterdam
750 bgs, Rotterdam
CARDAMOM SEED—6 cs, Karl H Landes & E Balint, Mangalore
CARNAUBA WAX—25 bgs, Wm Diehl & Co, Rio de Janeiro
CASEIN—1,800 bgs, Tupman Thurlow, Buenos Aires
1,500 bgs, Borden Co, Buenos Aires
200 bgs, Irving Trust Co, Buenos Aires
400 bgs, F H Paul & Stein Bros, Brisbane
500 bgs, Tupman Thurlow, Hamburg
331 bgs, Guaranty Trust Co, Sydney
6,720 bgs, Pacific National Bank, Melbourne
2,000 bgs, Melbourne
CASHEWNUT SHELL LIQUID—115 tons, Irvington Varnish & Insulator Co, Cochin
94 tons, Jacques Missir, Mangalore
CASSIA—485 bls, Borneo Sumatra Trading Co, Rotterdam
197 bls, P H Petry, Rotterdam
280 bls, Irving Trust Co, Rotterdam
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457 bgs, Rotterdam
CASTOR BEANS—650 bgs, Baker Castor Oil Co, Bahia
54 bgs, Spencer Kellogg, Port Au Prince
422 bgs, Spencer Kellogg, Gonaives
CELERY SEED—78 bls, Wm E Martin, Marseille
CHESTNUT EXTRACT—6,194 bgs, Barkey Importing Co, Genoa
CHLORHEXIDINE DIHYDROCHLORIDE—3 dms, A J Demay & Co, Liverpool
CHLORINATED RUBBER—200 bgs, C M C Chemicals Inc, Liverpool
CINNAMON SEYCHELLES—2 cs, Florasynth Lab, Rotterdam
QUILLS—50 bls, Fritzsche Bros, Colombo
50 bls, Lo Curto & Funk, Colombo
35 bls, Keilys America Ltd, Colombo
125 bls, Louis Furth, Colombo
CLAY—25 dms, Transmares Corp, Antwerp
CLOVE—100 bgs, Marseille
COALTAR DYES—6 dms, Anderson Trading Corp, Rotterdam
8 dms, Wedeman & Godknecht, Rotterdam
COCONUT OIL—387 tons, E F Drew & Co, Cebu
375 tons, American Trust Co, Zamboanga
COD OIL—100 dms, Bremen
CODLIVER OIL—200 dms, Peder Devold Oil Co, Reykjavik
90 dms, Dyson Shipping Co, Reykjavik
25 dms, Arista Oil Products Co, Alesund
COPPER CYANIDE—40 dms, Manufacturers Trust Co, Antwerp
60 dms, Antwerp
OXYCHLORIDE—100 bgs, Riches Nelson, Antwerp
CORN STARCH—1,030 bgs, Rotterdam
COTTON LINTERS—1,986 bls, Antwerp
CRESOL—1 dm, Melanol Corp, Hamburg
CRESYLIC ACID—150 dms, James E Fox, Manchester
316 dms, H A Gogarty, Liverpool
CUBE ROOT—213 bgs, Callao
CUMIN SEED—90 bgs, Koilthottam
CUTTLEFISH BONE—100 cs, Lisbon
DAMMAR GUM—100 cs, Archer Daniels Midland Co, Bangkok
140 bgs, O G Innes Corp, Singapore
70 bgs, S Winterbourne & Co, Singapore
28 bgs, France Campbell & Darling, Singapore
50 bgs, S Winterbourne & Co, Bangkok
DEXTRIN—178 bgs, Stein Hall & Co, Rotterdam
325 bgs, Rotterdam
EARTH COLORS—224 bgs, Landers Segal Color Co, Rotterdam
2,675 bgs, Naftone Inc, Bremen
EUCALYPTUS OIL—28 dms, Sydney
WOOD EXTRACT—3,808 bgs, International Expediters, Fremantle
FISHLIVER OIL—2 dms, Interocean Chemical & Minerals Corp, Yokohama
10 dms, Consumers Import Co, Yokohama
3 dms, Yokohama
FORMYL ACETAL—1 dm, Antwerp
FUEL OIL—219,347 bbls, Paragon Oil Co, Punta Cardon
213,564 bbls, Esso Export Corp, Aruba
227,584 bbls, Metropolitan Petroleum Corp, Curacao
74,417 bbls, Shell Oil Co, Curacao
103,684 bbls, Paragon Oil Co, Curacao
245,290 bbls, Esso Standard Oil Co, Las Piedras
295,943 bbls, Esso Standard Oil Co, Aruba
10,000 bbls, Asiatic Petroleum Corp, Curacao
GALLNUTS—155 bgs, Meer Corp, Beirut
100 bgs, Mallinckrodt Chemical Works, Beirut
GALL, OX—2 cks, Tupman Thurlow, Brisbane
1 cs, Tupman Thurlow, Brisbane
7 dms, K Mayer, Brisbane
GELATIN—100 bbls, Riches Nelson, Antwerp
100 bgs, T M Duche & Sons, Antwerp
47 kgs, G G Lippelgoes, Hull
400 bgs, Transatlantic Animal By Products Corp, Rotterdam
60 dms, D H Burdett, London
GERMANIUM OXIDE—68 cs, American Metal Co, Antwerp
GINGER—80 bgs, Virchand Panachand, Cochin
80 bgs, C Czarinkow, Cochin
40 bgs, A G Dunn, Cochin
600 bgs, Mincing Trading Corp, Cochin
80 bgs, Shippers Produce Corp, Cochin
250 bgs, Chase Manhattan Bank, Apapa
80 bgs, J H Schroder, Alleppey
560 bgs, Alleppey
320 bgs, Cochin
GLUE—40 bgs, Stein Hall & Co, Rotterdam
GLYCERINE—100 tons, Colgate Palmolive Co, Buenos Aires
GRAPHITE—1,700 bgs, Joesph Dixon Crucible Co, Hamburg
500 bgs, Asbury Graphite Mills, Colombo
600 bgs, Asbury Graphite Mills, Bremen
GUAR GUM—5 bgs, Guaranty Trust Co, Rotterdam
GUIACAWOOD OIL—50 cs, Case Manhattan Bank, Buenos Aires
71 cs, C Tennant Sons & Co, Buenos Aires
GYPSUM—22,916 tons, U S Gypsum Co, Hantsport
4,000 tons, Newark Plaster Co, Halifax
200 bgs, Whittaker Clark & Daniels, Liverpool
HYDROXYCYCLOHEXYL HYDROPEROXIDE—30 cs, Celeanese Corp of America, Rotterdam
IODINE, CRUDE—100 kgs, North Atlantic Fertilizer & Chemical Co, Yokohama
164 kgs, Anthony Gibbs, Tocopilla
IRON BLUE—73 dms, Van Oppen & Co, Liverpool
OXIDE—360 bgs, F D Davis Co, London
448 bgs, Landers Segal Color Co, London
800 bgs, Naftone Inc, Hamburg
POWDER—13 dms, Arnold Engineering Co, Liverpool
ISONICOTINIC ACID HYDRAZIDE—8 dms, Hudson Shipping Co, Antwerp
JAPAN WAX—30 cs, Mitsubishi International Corp, Kobe
KARAYA GUM—60 bgs, Thurston & Braidich, Bombay
LACTOSE—225 dms, Chas L Huisking & Co, Liverpool
LAURIC ACID—300 dms, Hensel Bruckmann & Lorbacher, Liverpool
LAVENDER FLOWERS—25 bgs, S B Penick & Co, Marseille
OIL—1 cs, Yardley of London, London
5 cks, Delgo Aromatic Co, Havre
LEMONGRASS OIL—6 dms, Chemical Bank, Cochin
LITHARGE—300 dms, Eagle Picher Co, Tampico
10 bgs, Vera Cruz
LITHOPONE—1,000 bgs, Rotterdam
LIVERMEAL—345 bgs, Ovimpex Inc, Buenos Aires
1,000 bgs, Wessel Duval & Co, Montevideo
LIVER CONCENTRATE—14 dms, Wilson & Co, Buenos Aires
POWDER—9 dms, Tec Chemical Corp, Montevideo
LOCUST BEAN GUM—300 bgs, Morningstar Nicol, Genoa
500 bgs, Stein Hall & Co, Genoa
5 bgs, T M Duche & Sons, Genoa
200 bgs, Guaranty Trust Co, Rotterdam
1,394 bgs, J L Quesada, Valencia
MACE—3 chts, Karl H Landes & E Balint, Colombo
23 cs, Rotterdam
MAGNESITE—645 bgs, Goldwynne Chemical Corp, Madras
4,535 bgs, Golwynne Chemical Corp, Cochin
2,720 bgs, Cochin
MAGNESIUM SULFATE—60 dms, Gallard Schlesinger, Liverpool
MANGROVE BARK—1,538 bgs, Olson Sales Agency, Beira
EXTRACT—30 bgs, River Plate Corp, Lourenco Marques
MENTHOL—40 cs, Prentiss Drug & Chemical Co, Kobe
25 cs, I H Boody & Co, Yokohama
MERCURY—625 flks, Canadian Industries Ltd, Genoa
500 btls, Leghorn Trading Co, Leghorn
MOLASSES—550 tons, W R Grace & Co, Salaverry
MONTAN WAX—334 bgs, Frank B Ross, Hamburg
45 bgs, Parker Trading Co, Hamburg
200 bgs, Hamburg
MUSTARD SEED—165 bgs, Southgate Foods, Copenhagen
320 bgs, C Gulden, London
MYROBALANS EXTRACT—300 bgs, Barkey Importing Co, Liverpool
NAPHTHALENE—1,961 bgs, American Cyanamid Co, Liverpool
908 bgs, Marine Midland Trust Co, Rotterdam
597 bgs, Gallard Schlesinger, Hamburg
597 bgs, Antwerp
NAPHTHOL—13 dms, Hensel Bruckmann & Lorbacher, Hamburg
4 dms, Rotterdam
b-NAPHTHOL—333 bgs, Rotterdam
NICKEL ACETATE—30 bgs, Aceto Chemical Co, Bremen
CHLORIDE—220 bgs, I M Sobin, Bremen
6 cks, Republic Chemical Corp, London
SULFATE—32 bgs, Mutchler Chemical Co, Rotterdam
NUTMEG—8 bgs, Karl H Landes & E Balint, Colombo
140 bgs, Borneo Sumatra Trading Co, Singapore
60 bgs, R J Spitz, Singapore
91 bgs, Borneo Sumatra Trading Co, Rotterdam
125 bgs, Shippers Produce Corp, Rotterdam
70 bgs, Singapore
OLIVE OIL—261 dms, J Ossola, Cadiz
410 dms, C Orlando, Cadiz
52 dms, Unanve & Sons, Cadiz
3,081 dms, Seville
ORANGE OIL—2 dms, Citrus & Allied Essential Oil Co, Puerto Plata
PAPAIN—63 hf chts, Chas L Huisking & Co, Colombo
51 cs, Chas L Huisking & Co, Colombo
100 cs, Empire Trust Co, Colombo
PAPRIKA—470 bgs, Manufacturers Trust Co, Alicante
500 bgs, Sopac Transport, Alicante
58 bgs, H Marmorek & Son, Alicante
200 bgs, A A Sayia, Alicante
PATCHOULI OIL—5 cs, George Lueders & Co, Penang
PEARL ESSENCE, SYNTHETIC—2 cans, Mearl Corp, Dublin
PEATMOSS—750 bls, Marine Midland Trust Co, Bremen
600 bls, Bruco Peatmoss Corp, Bremen
720 bls, New Amsterdam Import Co, Bremen
2,250 bls, Lewis Intern Co, Bremen
1,500 bls, Trans Sphere Trading Co, Bremen
2,000 bls, Lion Trading Co, Bremen
5,253 bls, Premier Peatmoss Corp, Bremen
1,000 bls, Bruco Peatmoss Corp, Hamburg
1,000 bls, J E Bernard, Bremen
1,100 bls, New Amsterdam Import Co, Copenhagen
1,300 bls, E J Lang, Hamburg
1,700 bls, Premier Peatmoss Corp, Hamburg
250 bls, Trans Sphere Trading Co, Hamburg
1,250 bls, E J Lang, Bremen
400 bls, C Gastmeyer, Rotterdam
1,210 bls, Premier Peatmoss Corp, Copenhagen
PEPPER, BLACK—1,120 bgs, Polak Trading Co, Cochin
80 bgs, A A Sayia, Cochin
160 bgs, Mincing Trading Corp, Cochin
80 bgs, Volkart Bros, Cochin
560 bgs, A C Israel, Cochin
80 bgs, Internatio Rotterdam, Cochin
1,360 bgs, Ludwig Mueller, Cochin
600 bgs, Virchand Panachand, Cochin
80 bgs, Plantation & Colonial Products, Cochin
80 bgs, M Golodetz, Cochin
160 bgs, Borneo Sumatra Trading Co, Cochin
240 bgs, Dalamar & Sons, Cochin
640 bgs, East India Trading Co, Cochin
320 bgs, Joensson & Cross, Cochin
245 bgs, Borneo Sumatra Trading Co, Singapore
80 bgs, Joensson & Cross, Cochin
240 bgs, A G Dunn, Cochin
80 bgs, East India Trading Co, Mangalore
160 bgs, Joensson & Cross, Mangalore
160 bgs, Shippers Produce Corp, Cochin
400 bgs, East India Trading Co, Singapore
568 bgs, Joensson & Cross, Singapore
140 bgs, A G Dunn, Singapore
70 bgs, Shippers Produce Corp, Singapore
210 bgs, Polak Trading Co, Singapore
630 bgs, Ludwig Mueller, Singapore
70 bgs, A C Israel, Singapore
640 bgs, Alleppey
288 bgs, Cochin
RED—25 bgs, Tico Trading Co, Kobe
200 bgs, Robeco Chemicals Inc, Kobe
100 bgs, M J Golombeck, Kobe
100 bgs, A G Dunn, Yokohama
100 bgs, Hismoco American Co, Yokohama
300 bgs, Borneo Sumatra Trading Co, Yokohama
PETITGRAIN OIL—15 cs, Dodge & Olcott, Buenos Aires
6 dms, J H Schroder, Buenos Aires
10 dms, Chase Manhattan Bank, Buenos Aires
11 dms, C Tennant Sons & Co, Buenos Aires
PETROLEUM, CRUDE — 153,160 bbls, Gulf Oil Corp, Las Piedras
115,883 bbls, Gulf Oil Corp, Caripito
494,697 bbls, Esso Standard Oil Co, Puerto La Cruz
105,127 bbls, Esso Standard Oil Co, Las Piedras
145,000 bbls, Socony Mobil Oil Co, Puerto La Cruz
PHENYL METHYL PYRAZOLONE—5 dms, Rotterdam
PHOSPHOMOLYBDIC ACID—2 cs, Fielding Chemical Co, London
PHTHALIC ANHYDRIDE—400 bgs, O W Lochner, Rotterdam
PINENEEDLE OIL—12 dms, Centflor Manufacturing Co, Hamburg
PITUITARY POWDER, ANTERIOR LOBE—2 cs, Mantell Export Co, Buenos Aires
POPPY SEED—100 bgs, P Olender & Co, Rotterdam
600 bgs, C M Van Sillevoldt, Rotterdam
100 bgs, Levy & Levis Co, Rotterdam
100 bgs, Biddle Purchasing Co, Rotterdam
400 bgs, Louis Furth, Rotterdam
300 bgs, Rotterdam
POTASSIUM CHROME ALUM—5 cs, L B Russell Chemicals, Antwerp
CYANIDE—268 dms, Chemical Manufacturing Co, Liverpool
FERROCYANIDE—800 bgs, Haras Co, Rotterdam
METABISULFITE—100 cks, H Reifenberg, Hamburg
NITRATE—1,000 bgs, Lo Curto & Funk, Rouen
SILICATE—850 bgs, Sylvania Electric Products, Rotterdam
POTATO STARCH—120 bgs, Rotterdam
QUEBRACHO EXTRACT—1,072 bgs, First National Boston, Buenos Aires
1,605 bgs, Barkey Importing Co, Buenos Aires
3,141 bgs, River Plate Corp, Buenos Aires
RAFAELITE—146 kgs, C A Redden, London
RAUWOLFIA ROOT—160 bgs, East Asiatic Co, Matadi
RED LEAD—160 bgs, Vera Cruz
ROSEWOOD OIL—1 bbl, Herman Hollander, Callao
RUTILE SAND—4,000 bgs, Lo Curto & Funk, Brisbane
SAGE LEAVES—453 bls, Manufacturers Trust Co, Hamburg
SAGO FLOUR—282 bgs, Manhattan Paste & Glue Co, Singapore
338 bgs, Olson Sales Agency, Singapore
SANDALWOOD—264 bgs, W J Bush & Co, Madras
80 bgs, S B Penick & Co, Madras
OIL—5 cs, Van Ameringen Haebler, Madras
2 cs, Kane Import Corp, Madras
14 cs, Lo Curto & Funk, Calcutta
SEEDLAC—250 bgs, Colony Import & Export Corp, Bangkok
500 bgs, Bingham & Co, Bangkok
250 bgs, Doran & Schmiedel, Bangkok
400 bgs, Mantrose Corp, Calcutta
300 bgs, Wm Zinsser & Co, Calcutta
100 bgs, L N White & Co, Calcutta
250 bgs, Grace National Bank, Bangkok
811 bgs, Commercial Alcohols Ltd, Bangkok
250 bgs, East Asiatic Co, Bangkok
200 bgs, Gillespie Rogers Pyatt, Calcutta
250 bgs, Chase Manhattan Bank, Bangkok
250 bgs, M Rothschild & Co, Bangkok
250 bgs, Mac Lac Co, Bangkok
750 bgs, Calcutta
250 bgs, Bangkok
SENNA LEAVES—106 bls, Irving Trust Co, Port Sudan
SERPENTINA ROOT—5 bgs, Collett Week Corp, Rangoon
SESAME SEED—67 bgs, Grace National Bank, Port Sudan
133 bgs, Chase Manhattan Bank, Port Sudan
217 bgs Transatlantic Animal By Products Corp, Suez
HULLED—224 bgs, Barclays Bank, Alexandria
SHARKLIVER OIL—5 dms, Collett Week Corp, Oslo
SHELLAC—50 bgs, Colony Import & Export Corp, Calcutta
400 bgs, Schwab Bros, Calcutta
75 bgs, Ralli Bros, Calcutta
27 bgs, F H Paul & Stein Bros, Hamburg
200 bgs, Gillespie Rogers Pyatt, Calcutta
150 bgs, Mac Lac Co, Calcutta
560 bgs, Wm Zinsser & Co, Calcutta
100 bgs, C H Timm, Calcutta
SILICON CARBIDE—2 cks, D C Andrews, Oslo
SOAP BARK—132 bls, S B Penick & Co, San Antonio
SODIUM BICARBONATE—500 bgs Chemical Manufacturing Co, Liverpool
BICHROMATE—100 dms, Ferro Metal & Chemical Corp, Durban
PHOSPHATE—250 dms, Rotterdam
SILICOFLUORIDE—167 bgs, Philipp Bros Chemicals, Kobe
1,176 bgs, H Sundheimer, Rotterdam
200 bgs, Irving Trust Co, Rotterdam
100 bgs, Rotterdam
50 bgs, Antwerp
800 bgs, Kobe
SPERM OIL—283 tons, Pisco
227 tons, Glasgow
STARCH—100 bgs, Rotterdam
TALC—18,700 bgs, Charles Mathieu, Genoa
TAMARIND—44 cks, Calcutta
TAPIOCA FLOUR—3,000 bgs, Internatio Rotterdam, Bangkok
400 bgs, Geismar & Co, Bangkok
5,600 bgs, Stein Hall & Co, Bangkok
TARA POWDER—1,288 bgs, Union Bank of Commerce Clevland, Salaverry
TARTAR—926 bgs, Tartaric Raw Materials, Algiers
210 bgs, Tartaric Raw Materials, Marseille
160 bgs, Tartaric Raw Materials, Tunis
THYME LEAVES—63 bls, Louis Furth, Marseille
THYROID POWDER—10 dms, Tuteur Bio Chemicals, Liverpool
TITANIUM ALUMINUM—2 dms, C Tennant Sons & Co, London
DIOXIDE—100 bgs, M W Hardy & Co, Antwerp
120 bgs, Glasgow
RUTILE—200 bgs, Nuodex International, London
110 cks, Airo Forwarding Co, Hamburg
132 bgs, Nuodex International, Manchester
TRICHLOROETHYLENE—142 dms, Chemical Manufacturing Co, Liverpool
ULTRAMARINE BLUE—140 bgs, T H Deutz, Antwerp
UREA—8,000 bgs, Chemical Manufacturing Co, Middlesbrough
2,000 bgs, Nylos Trading Co, Genoa
SYNTHETIC—4,000 bgs, Chemical Manufacturing Co, Glasgow
VANILLA BEANS—37 cs, Dammann & Co, Cristobal
16 cs, Cristobal
VETIVER OIL—1 dm, Norda Essential Oil & Chemcal Co, Port Au Prince
1 dm, Van Ameringen Haebler, Port Au Prince
2 dms, Centflor Manufacturing Co, Port Au Prince
VITAMIN C—4 dms, Atlantic Bank of N Y, Antwerp
WATTLE BARK—3,275 bls, Hammond & Carpenter, Durban
EXTRACT—227 bgs, River Plate Corp, Durban
WHITING—1,200 bgs, N H Weitzner, Antwerp
1,440 bgs, Hammill & Gillespie, Hull
2,260 bgs, Antwerp
WOOL ALCOHOL—20 cs, N I Malmstrom, Liverpool
GREASE—78 dms, Chemical Bank, Genoa
51 cks, Robinson Wagner Co, Genoa
39 dms, Robinson Wagner Co, Antwerp
100 dms, Hummel Chemical Co, Bremen
110 dms, W L Montgomery & Co, Fremantle
93 dms, Olson Sales Agency, Fremantle
52 dms, National City Bank, Port Adelaide
100 dms, Olympic Shipping Co, Hull
119 dms, N I Malmstrom, Manchester
50 dms, Phoenix Oil Products, Manchester
75 dms, N I Malmstrom, Liverpool
50 dms, Melbourne
WAX—13 dms, Olympic Shipping Co, Liverpool
XYLENOL—1 dm, Melanol Corp, Hamburg
YACCA GUM—156 bgs, Flora Lac Co, Port Adelaide
230 bgs, Wm H Scheel, Port Adelaide
308 bgs, O G Innes Corp, Port Adelaide
ZINC-AMMONIUM CHLORIDE—12 dms, Lo Curto & Funk, Liverpool
ZINC CYANIDE—60 dms, Marine Midland Trust Co, Antwerp
44 dms, Industrial Chemical & Dye Co, Genoa

Baltimore

CHESTNUT EXTRACT—4,000 bgs, Tanimex Corp, Rotterdam
LITHARGE—84 dms, Tampico
MANGROVE EXTRACT—2,000 bgs, Saxe Cutch Corp, Singapore
PEATMOSS—800 bls, C Gastmeyer, Rotterdam

PEPPER, BLACK—560 bgs, Joensson & Cross, Cochin
80 bgs, Ludwig Mueller, Cochin
240 bgs, Otto Gerdau, Cochin
TAPIOCA FLOUR—420 bgs, Geismar & Co, Bangkok

Boston

SEEDLAC—250 bgs, Mantrose Corp, Bangkok
500 bgs, Ralli Bros, Bangkok

Norfolk

DAMMAR GUM—50 cs, O G Innes Corp, Bangkok
POTASSIUM MURIATE—589 tons, French Potash & Import Co, Antwerp
SULFATE—1,770 tons, French Potash & Import Co, Antwerp
STARCH—200 bgs, Morningstar Nicol, Rotterdam

Philadelphia

ALUMINUM OXIDE—50 bgs, Lava Co, Hamburg
ANTIMONY OXIDE—1,000 bgs, Harshaw Chemical Co, Glasgow
100 cks, Watson Geach, Glasgow
BONEMEAL—336 tons, Kind & Knox, Calcutta
CARAWAY SEED—100 bgs, C M Van Sillevoldt, Rotterdam
100 bgs, Rotterdam
CASEIN—1,000 bgs, Buenos Aires
CRESYLIC ACID—200 dms, Concord Chemical Co, Rotterdam
300 dms, Glasgow
FUEL OIL—99,084 bbls, Paragon Oil Co, Curacao
115,325 bbls, Shell Oil Co, Punta Cardon
92,006 bbls, Buckley Bros, Curacao
GYPSUM—4,780 tons, U S Gypsum Co, Deep Brook
MAGNESITE—6,000 bgs, Split
MOLASSES—622,341 gals, Guatanamo
794,661 gals, Jucaro
427,766 gals, Santa Cruz
NAPHTHALENE—500 bgs, Barrett Division, Middlesbrough
PAPRIKA—30 bgs, J Weinstein, Alicante
PEATMOSS—614 bls, Keer Maurer, Bremen
1,300 bls, Premier Peatmoss Corp, Hamburg
3,430 bls, Premier Peatmoss Corp, Bremerhaven
2,700 bls, E Dunwoody, Bremerhaven
1,000 bls, Van Zanten & Co, Bremen
500 bls, E Dunwoody, Bremen
550 bls, Halfmoon Manufacturing & Trading Co, Rotterdam
500 bls, New Amsterdam Import Co, Aarhus
500 bls, New Amsterdam Import Co, Bremen
PETROLEUM, CRUDE—421,127 bbls, Gulf Oil Corp, Puerto La Cruz
210,096 bbls, Atlantic Refining Co, Pamatacual
104,018 bbls, Atlantic Refining Co, La Salona
235,859 bbls, Socony Vacuum Oil Co, Covenas
183,483 bbls, Socony Vacuum Oil Co, Mena Al Ahmadi
119,229 bbls, Atlantic Refining Co, Puerto La Cruz
115,020 bbls, Gulf Oil Corp, Mena Al Ahmadi
125,726 bbls, The Texas Co, Puerto La Cruz
QUEBRACHO EXTRACT—605 bgs, Olson Sales Agency, Buenos Aires
SHELLAC—150 bgs, Calcutta
SODIUM BICARBONATE—35 dms, Chemical Manufacturing Co, Middlesbrough
CYANIDE—178 dms, Chemical Manufacturing Co, Middlesbrough
UREA—4,000 bgs, Chemical Manufacturing Co, Middlesbrough
WHITING—44,034 bgs, Pluess Staufer, Antwerp

San Francisco

CARAWAY SEED—100 bgs, B C Ireland, Bremen
COPRA—1,500 tons, Cargill Inc, Cebu
390 tons, Manila
CAKE—2,000 bgs, Pacific Vegetable Oil Corp, Cebu
2,240 bgs, Atkins Kroll & Co, Manila
GINGER WASTE—62 bgs, K I Lister & Co, London
GYPSUM—10,603 tons, Kaiser Gypsum Co, San Marcos
NUTMEG—360 bgs, Port of Spain
OLIVE OIL—50 dms, R Vannucci Co, Cadiz
50 dms, R Vannucci Co, Barcelona
PEATMOSS—600 bls, Lastreto Phillips, Rotterdam
750 bls, East Asiatic Co, Bremen
250 bls, Lastreto Phillips, Bremen
PEPPER, BLACK—16 bgs, Grace & Co, Singapore
RED—128 bgs, J H Schroder, London
QUEBRACHO EXTRACT—100 bgs, Gothenburg
SESAME SEED—270 bgs, H M Newhall & Co, Bombay
1,200 bgs, Bank of California, San Juan Del Sur
200 bgs, Beton Co, Corinto
700 bgs, Pacific National Bank, Corinto
550 bgs, Grace & Co, Corinto
UREA—633 tons, Antwerp
WHITING—2,000 bgs, Antwerp

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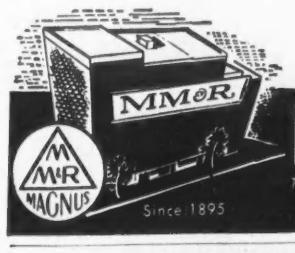

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Essential Oils, Aromatics

Cold weather in the floral esential oils producing areas (Grasse, etc.) of France brought a strong tone to those oils on the spot market last week, dealers noted. Some suppliers have canceled prices on Neroli on the strength of reports that the freezing temperatures have killed a large number of trees. Rose and Jasmin also are believed to have been strongly effected by the weather.

The safrol bearing oils showed some stability in spot market positions last week, it was noted. This was in marked contrast with the steady decline of the past months.

The seasonal Easter sales have for the most part vanished from the scene, most dealers agreed, with commitments, both contractual and independent, already to a great extent, fullfilled. However, the summer seasonal sales, particularly of the citrus oils, has already begun to manifest itself, though, dealers agree, the movement is not enough to offer a perceptable shift to the market as a whole.

The two strongest movements in the seeds and spice market were noted in the vanilla bean and the cinnamon markets. Vanilla beans took a heavy step forward, firming to the tune of $1 per pound and better advances for most qualities. The movement was reported by dealers to be resultant of the sudden failure of supply from Madagascar. Cinnamon jumped 8 cents higher in one Ceylon quality and 6 cents forward in the other, it was reported. Dealers attributed the rise to export demand at higher than spot prices.

Black pepper continued soft with a plentitude of stock about on the stock market.

Price Trends

Price Trends

Advanced

Cardamom seed, green, Ceylon, 10c. per lb.
Celery seed, French, 1c. per lb.
Cinnamon, Ceylon #2, 8c. per lb.
"0000", 6c. per lb.
Clove, Madagascar, 1c. per lb.
Zanzibar, 1c. per lb.
Cumin seed, Iranian, ½c. per lb.
Turkish, ¼c. per lb.
Nutmeg, East Indian, 1c. per lb.
Oil, Chenopodium, 10c. per lb.
Citronella, Java-type, 5c. per lb.
Guaiacwood, 5c. per lb.
Lemongrass, 10c. per lb.
Petitgrain, 10c. per lb.
Veviter, Haitian, 10c. per lb.
Poppy, Dutch, ½c. per lb.
Polish, ½c. per lb.
Vanilla beans, Bourbon, $1.15 per lb.
Mexican, cut, 25c. per lb.
whole, 75c. per lb.

Reduced

Ginger, African, 1c. per lb.
Jamaica, #3, 2c. per lb.
Nigerian, 1c. per lb.
Oil, Sandalwood, 25c. per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Mar. 4, 1955
135.23	135.10	134.90	138.20

For Current Prices see Page 9

Essential Oils

Bois de Rose—Price remained unchanged last week, though the spot condition as well as source remained soft, dealers reported. The condition, a cumulative one, has been in existence since last summer, and no immediate respite is in sight.

Citronella — Java-type (Formosan) quality citronella oil displayed new strength last week, it was reported. Originating at source, the firmness was reflected at spot in price advances up to a range of $2.10-$2.25 per pound. Although this is only a 5c. per pound advance, it is the first time the Java-type material has shown strength in some time. Further word from the source area is that the inside listing is still short and will be advanced again.

Guaiacwood—A continued scarcity of guaiacwood oil on spot firmed the price once again last week, for the third time in as many weeks, it was reported. The new listing of $1.45 per pound is a 5c. per pound advance over the previous quote. Dealers claim that there is no immediate succor in sight for the situation.

Nutmeg—Scarcity of spot oil is considered the reason for this oils price advance last week, dealers reported. The new listing of $4.80 for East Indian quality nutmeg is a 5c. per pound advance over the previous price. Prices on West Indian quality oil continue to be subject to confirmation prior to sale.

Sandalwood—This oil eased perceptably on the market last week, it was reported. The new inside listing of $15.50 per pound is a 25c. decline from the previous quote.

Imports Detained at N. Y.

Week Ended February 24

New York

Black Pepper (9 lots), 478 bags.
Coriander Seed, 180 bags.
Chillies (2 lots), 272 bags.
Cloves (26 lots), 3,231 bags.
Cassia (16 lots), 1,301 bags.
Gum Karaya (6 lots), 146 bags.
Mace (4 lots), 50 cases.
Nutmegs (9 lots), 511 bags.
Oregane Leaves, 500 bags.
Paprika, 100 bags.
Rosemary Leaves, 36 bags.
Sesame Seed (5 lots), 803 bags.

The outside price is about $16. Reports from England have it that material from Mysore is becoming particularly plentiful and has caused the easement.

Vetiver—Haitian quality vetiver oil firmed slightly last week, dealers reported. The new range of $9.60 to $11 per pound reflects a 10c. advance over previous quotes. Bourbon and Java qualities remained steady at their old listings.

Aromatic Chemicals

Linalool—Spot prices for linalool, ex bois de rose, are lower as the result of the continued series of reductions that have taken place in the essential oils sources materials, it was reported here last week. The new listings range from $5.35 to $5.85 per pound, according to quantity. Previous listings were 10c. per pound higher.

Vinillin—Dealers reported the recent arrival of a relatively large shipment of ortho-vinillin. The price of lignin vinillin was recently reduced as the result of competitive conditions.

Miscellaneous

Cinnamon—This spice made a strong upward movement last week, it was reported, with a price advance of some 8c. per pound over its previous listing for Ceylon number 2 quality and a 6c. per pound advance for the "0000" quality material. Dealers attributed the strident firming to the higher market abroad which has been prompting heavy export of spot material.

Ginger—Interest revived early in the week when reports from India indicated that arrivals of new crop Cochin ginger at shipping ports had tapered off to a trickle, therefore firming shipping prices practically to the spot level. Cochin is still the cheapest of the better grade gingers with spot and afloat lots both being offered at reasonable prices. Only scattered lots of African quality ginger are being offered on the spot, although new crop shipment offerings for February-April shipment are beginning to come out at more competitive levels. Cables from Jamaica continue very steady with spot stocks practically exhausted. Some parcels are enroute but there are no sizable discounts offered. All indications point to continued high levels on this grade.

Cloves—Spot prices had not reflected the rise in shipment markets, and were attractive at current when reconditioning costs were in-

Essential Oils

cluded were reported difficult at current levels. Zanzibars continued firm here and abroad.

Pepper—The market remained dull in a week of quiet trading. However, spot prices edged higher fractionally, pushed by the steady markets abroad. There was only a restricted demand for immediate delivery, and this worked off the parcels most pressed for sale. Other holders were reluctant to sell below replacement costs and therefore the market edged higher. Most of one shipment of pepper which arrived recently was released but the effect of this heavy arrival was mostly discounted prior to its release. In as much as the market in India and Singapore show no inclination to compete at our levels, it does not appear as if we will see a further decline of any real scope for the present.

Vanilla Beans—It has now been established, dealers reported, that no more than 150 tons of Madagascar quality material remain at source to see the spot market demand through until the spring of next year. The result of this information was an immediate price advancement to a $6-$6.50 range for Madagascar materials; a similar listing for Bourbon material; a $6.75 to $7 range for Mexican cuts and a $7.50 to $8 span for Mexican whole beans. The Tahitian material, still unavailable, is listed at a nominal $6 per pound.

Castor Oil Surplus Stocks To Be Marketed by CCC

Department of Agriculture has announced that it will soon make available for sale approximately 9.8 million pounds of castor oil. This oil, acquired by Commodity Credit Corporation under a 1953 castor bean production program intended to supply possible additional defense stockpile needs, is located in several tanks at Chickasha, Okla.

CCC castor oil stocks will be offered for sale on a competitive bid basis, f.o.b. tankcars or tank wagons in units of not less than 60,000 pounds (one tank car of 8,000 gallons). Offers also will be entertained for purchase, on an in-store basis, of the entire contents of such individual tanks as may be specified by CCC.

An announcement giving specified quantities of castor oil to be offered initially, and terms and conditions of sale, will be issued shortly by the Dallas Commodity Stabilization Service Commodity Office, 500 South Ervay St., Dallas 1, Tex.

Geigy Files Application For Pesticide Tolerance

The Food and Drug Administration last week announced that a petition has been filed under the Miller pesticide law proposing a tolerance of three parts per million for residues of the chemical pesticide "Diazinon" on apples, cabbage, cherries, celery, pears, prunes, sweet corn and tomatoes.

The chemical name for the product is 0,0-diethyl 0-(2-isopropyl-6-methyl-4-pyrimidinyl) thiophosphate. The petition was filed by Geigy Agricultural Chemicals, New York.

US Steel Names Waugh To Development Position

D. R. Waugh has been appointed assistant director of market development by United States Steel Corporation.

Mr. Waugh joined US Steel in 1949 on special assignment with Columbia-Geneva Steel Division in San Francisco. He was named manager of heavy products and sheet second sales in 1951, and became general sales staff manager, the position he now leaves, later the same year.

Hart Products Opens A New Research Lab

Hart Products Corporation has a new research and development laboratory in Jersey City, N. J.

The new lab, which replaces one destroyed by fire last year, provides 4,000 square feet of floor space with modern benches and facilities to accommodate fifteen chemists. In addition, a separate laboratory room has been provided for large-scale process development work, equipped with glass and lead-lined reactors.

Rowe Paint & Varnish Changes Name

Rowe Paint & Varnish Company, Niagra Falls, N. Y., has changed its corporate name to Rowe Products, Inc. Ownership, management, personnel, products and policies of the firm remain the same.

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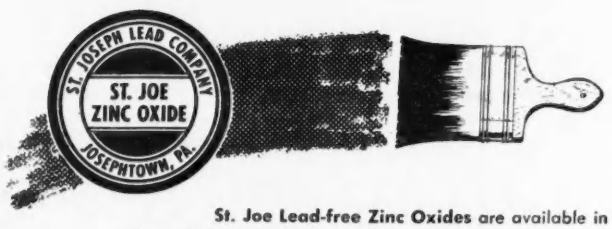

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Coatings Materials

The shortage of cadmium colors is expected to be alleviated in the near future through marketing of a new line of cadmium lithopone materials in which mercury is used in place of critically scarce selenium. Prices of the new product are deep orange, $1.78 per pound; light red, $1.95 per pound; medium light red, $2.10; medium red, $2.25; and dark red $2.40. The price of cadmium lithopone orange (selenium variety) was advanced recently to $1.80 per pound, to compensate for the increase in selenium. This price advance was proportionately less than the earlier increase in cadmium reds.

A steady tone prevailed in the lead and zinc markets last week, contributing to a stable situation for the corresponding pigments. Trade circles look forward to good sales during the spring buying season which is about to commence. Current sales are at seasonal levels. The firming trend has persisted in copper, with a further advance of 2 cents per pound considered likely at last reports. In the event that this advance takes place, a corresponding hike in copper oxides is likely to be posted.

Despite the cutback in automobile production plasticizer sales have continued at a brisk pace. Synthetic resin business has been quieter during the last month, but informed sources attribute the more moderate tone to seasonal factors rather than to the slowdown in autos.

Trading in shellac remained sluggish last week, with most purchasing on a short term basis. Gum buying also appeared to be confined to immediate needs. For both materials prices were unchanged, though some softness was discernible in shellac.

With American consumers displaying little buying interest, the price of Argentine casein has continued to slip. Rumors that inclement weather has caused significant damage to current European production seem not to be effecting prices or buying policies. Trade sources conjecture that consumers are turning to substitute materials, awaiting a more favorable price in casein. However, at 26½ cent per pound, Argentine material is already 7½ cents below the price prevailing last November. Limited offers from Argentina indicate that sellers there are trying to hold the line against further declines.

Price Trends

Advanced

Orange, light cadmium lithopone, 14c. per lb.
Deep cadmium lithopone, 19c. per lb.

Reduced

Casein, imp., Arg., ½c. per lb.
New Zealand, 1c. per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Mar. 5, 1955
100.15	100.14	100.08	97.13

For Current Prices see Page 9

Prime Pigments

Cadmium Colors—A line of cadmium colors utilizing mercury in place of selenium was put on the market recently. Since mercury is more plentiful than selenium—the latter material has been in critically short supply during the last two years—the price range on the new materials is substantially lower. While it is claimed that the new product has properties equivalent to those found in selenium lithopones, it is felt in some quarters that such characteristics as long range outdoor durability can be definitively tested only after the material is in the hands of consumers. Prices on the product are as follows:—Deep orange, $1.78 per pound; light red, $1.95; medium light red, $2.10; medium red, $2.25; and dark red, $2.40.

The price of cadmium lithopone orange was advanced recently to $1.80 per pound, in response to the increase in the price of selenium. The advance was proportionately less than that announced earlier for cadmium reds.

Copper Oxides—The possibility of a price advance in these materials remained uncertain last week, although at least one producer felt that an advance would probably be unnecessary. The price of copper was recently advanced four cents per pound.

Lead Pigments—Markets for pig lead and lead pigments have been in good tone over the past few weeks, with prices steady and unchanged. Trade circles are looking forward optimistically to the spring buying season which is about to commence.

Zinc Pigments—A well balanced market continued to operate in zinc pigments during last week's trading. Demand is at normal levels, set to rise shortly, with the advent of the spring buying season. Supplies are expected to be adequate to meet the demand anticipated.

Synthetic Resins

The following figures show production in pounds for December, and list November's figures for comparison, as reported by the Tariff Commission:—

Production

	†December	†November
Phenolic and other tar acid resins:—		
Laminating resins	9,950,209	*10,132,293
Adhesive resins	2,493,996	3,033,871
Protective coating resins, modified, unmodified, except by rosin	2,127,490	2,492,856
Urea and melamine resins:—		
Adhesive resins	10,633,403	11,069,533
Protective coating resins, straight, modified	3,150,606	3,522,960
Styrene resins:—		
Protective coating resins, straight, modified	9,147,569	9,288,531
Vinyl resins:—		
Total all types	61,285,034	62,199,348
Alkyd resins for protective coatings:—		
Phthalic anhydride types, unmodified	25,689,697	24,600,414
Modified with tar acids, rosin and or other materials, except styrene	7,298,304	6,987,734
Polybasic acid types except phthalic:—		
Unmodified	1,803,738	1,885,768
Modified with tar acids, rosin and or other materials, except styrene	705,462	533,669
Rosin modifications for protective coatings:—		
Rosin, rosin esters, unmodified (ester gums, esterified with glycerol	1,227,144	1,242,469
esterified with other alcohols, (pentaerythritol, glycols, etc.)	1,527,393	1,703,904
Rosin, rosin esters, modified:—		
Modifications with phenolic and other tar acid resins	2,299,453	1,817,706
Modifications with maleic and fumaric acids	2,792,118	3,070,013
All other modifications	2,770,990	*3,249,042
Coumarone — indene and petroleum polymer resins	19,891,828	23,211,850
Miscellaneous synthetic plastics and resins materials:—		
Protective coating resins (including epichlorhodrin, acrylic, polyester, silicone and other resins)	262,911	341,261

†Partly estimated. *Revised.

Lacquer Materials

Dioctyl Adipate—The price of this material was reported steady to firm in recent trading. Sales are

at brisk seasonal levels with supplies adequate.

Phthalates—The price range in effect for this material has been unchanged thus far this year. With phthallic anhydride relatively plentiful at present, supplies of phthalates have been sufficient for market needs. Sales are moving at a good clip for most producers, in some cases calling for capacity production.

Sebacates—The market for sebacates was reported in good balance, with material selling in seasonal quantities. Prices continued at previous listings. If any changes are in store for sebacates, no action is likely to be taken until the new contract quarter commences in April.

Natural Resins

Gum—Consumers at present are stressing immediate needs with little interest manifested in futures. As a consequence sales totals vary considerably from day to day. Behind the present situation appears to be a tendency of consumers to maintain low inventories for the time being. In last week's trading source prices were steady to firm and local prices steady. Supply and demand have been maintained in good balance.

Shellac—Trading continued sluggish and confined to immediate needs. Dealers and consumers are interested in the new crop due to reach Calcutta in about 45 days, as supplies and thus prices will be closely linked to the size of that crop.

Miscellaneous

Casein—Buying interest in Argentine casein has continued to diminish, and accordingly, the price of the material is soft. Rumors of extensive damage to European production caused by inclement weather there seem not to be effecting prices or buying policies. Latest reports quote Argentine casein at 26½-27c. per pound, ex dock New York. In recent weeks New Zealand material has softened to 30c. per pound, from a previous high of 34c. per pound. At its current price the material appears steady to firm, as demand is normal and New Zealand grades are in short supply.

Naval Stores

Rosin, Gum

(USDA, per 100 lbs.)

	Fri. Feb.24	Mon. Feb.27	Tues. Feb.28	Wed. Feb.29	Thur. Feb.30
Drums—					
K	...	...	...	...	$8.32
M	...	...	...	...	8.30
N	$8.40	...	...	...	8.35
WG	8.55	...	$8.50	...	...
WW	8.83	...	...	...	8.65
Bags—					
G	...	...	...	$8.30	8.30
K	8.29	...	8.30	...	...
M	...	$8.31	...	...	...
WG	...	8.63	8.60	8.65	...
WW	...	...	8.67§	8.68§	...

Tankcars (for week ended Feb. 24)—M, 8.12½; K or better, $8.09

Sales, USDA

1,910*	284*	486*	751*	466*

New York
(per 100 lbs., c.l., Friday)
B through N, $9.55; WG, $9.60; WW, $9.10

Turpentine, Gum

(USDA, per gal., 7.2 lbs.)

Price	.561§	.56	.5625	.56	...
Sales	14,000¶	4,000¶	6,000¶	6,000¶	...

New York, Friday, per gal. 7 lbs., tankcars, 63½c., l.c.l. 75c.

*Drums equivalent. §Gallons.
‡Average price.

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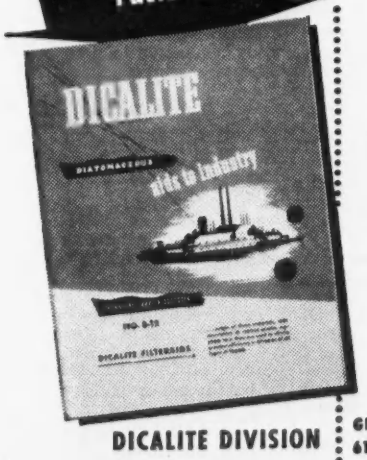

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LOWER PRODUCTION COSTS are possible because compounds containing Kronitex are rapid fluxing. In laboratory fluxing tests when a compound of polyvinyl chloride resin and 63 parts per hundred resin of Kronitex were run @ 310°F. the fluxing time was only about half that of a compound containing dioctyl phthalate. The fluxing time of any slow fluxing compound can be reduced by including Kronitex in the formulation.

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PROPERTIES

Grade	INDONEX Plasticizers 633½	634½	637½
Sp. Gr. (60°F).....	.994	.995	.997
Flash °F.....	465	475	515
Pour °F.....	30	35	55
Viscosity 210°F, Saybolt Sec.....	107	137	307
Viscosity Index.....	—130	—130	—108
Distn. (1mm) °F			
5%.....	362	366	412
30%.....	431	435	514
Evapn. Loss mg/10g. (1 hr. oven 100°C)	5	5	4

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Pulp Chemicals Unit Names Tall Oil Contest Winners

The tall oil division of the Pulp Chemicals Association has announced awards of $500, $350 and $100 to Dr. Robert S. Aries and Melvin Wolkstein of the Polytechnic Institute of Brooklyn, Jacobus Rinse of Chemical Research Associates, and Paavo Kajanne of the Institute of Technology at Helsinki, Finland.

The first two awards were presented to their winners by Albert Scharwachter, vice-president of Arizona Chemical Company and chairman of the tall oil division of the Pulp Chemicals Association. The winning papers were picked from among the papers submitted to the tall oil division in response to the awards contest which closed last October.

The top award went to Dr. Aries and Mr. Wolkstein jointly for their studies on the esterification of tall oil with glycerol. Mr. Rinse won the second prize for his paper on aluminum tritallate, a new tall oil derivative. Mr. Kajanne won the third prize for a paper tracing the changes in the composition of tall oil fatty acids from the time the pine tree is felled to the time the tall oil is produced.

AIChe Told

—*Continued from page 7*

of profits. The new theory proposed by authors Weaver and Reilly "considers profits as interest on the investment, and relates average profit to the average funds committed over the life of the project."

Financing of New Developments

Hamilton R. Wager, of Arabian American Oil Company, described in detail advantages to be gained from using appropriation requests, when it is necessary for engineers to ask management for money to finance a new devlopment in the chemical industry.

"Effective control and thorough evaluation of all capital expenditures is a vital responsibility of business management," stated Mr. Wager.

"Probably nowhere is this more true than in the chemical and process industries with their peculiar problems of obsolescence due to rapidly changing technology."

Dr. F. C. Jelen, of Solvay Process Division of Allied Chemical & Dye Corporation, New York, discussed the problem, "How does management decide between two attractive proposals for building new chemical plants?"

Dr. Jelen pointed out that, "Capitalized Cost offers a simple and exact method for comparing costs of alternatives on a common denominator basis. It accounts for differences in first cost, operating expense, obsolescence, and salvage value."

Justification for Development

"Complete and accurate capital cost estimates are vital in the dynamic chemical industry of today," stated Jack Tielrocy of Brea Chemicals, Inc., Los Angeles.

"Economic justification for a new development is usually based on anticipated profits from the estimated caiptal investment," said Mr. Tielrooy.

"A good economic justification requires, first, that capital investment estimates be both complete and accurate. A low estimate of capital cost may be disastrous by erroneously showing a "break-even" project to be extremely profitable."

Role of Electronic Brains

Million dollar "electronic brains" are now helping chemical engineers solve complex problems involved in producing synthetic fibers, wonder drugs, detergents, plastics, and many other everyday products of the chemical industry, according to Arthur E. Hoerl of E. I. duPont de Nemours & Co.

In one case, he said, less than two hours of Univac computation resulted in eliminating a $300,000 distillation unit from a new plant design.

This is just one instance where the large-scale computer not only solves problems that were previously impossible or very tedious, but also saves money in engineering new facilities.

It was also reported that chemical and petroleum companies are making increasing use of small computing machines in a wide variety of operations.

Examples of how punched card actuated calculators are used were described by Ascher Opler of Dow Chemical Company, Midland, Mich.

Drug Industry

—*Continued from page 3*

serve as a news dissemination agency for the health field. In fact, it was maintained that hand-in-hand cooperation between the two units is very likely, with the institute basing much of its public relations activities on HIF data.

APMA is expected to give the ADMA scheme the outside push it needs to make it an industry-wide reality when its president, Kenneth F. Valentine, recommends at the next board meeting that the association go along.

With the exception of NPC and the Proprietary Association, about which there was some doubt last week, the other seven associations are likewise expected to participate in the program.

The fact that some companies, with memberships in as many as three of the associations, will be taxed three times, is not expected to provide much of an obstacle. For, it was pointed out, no firm will be hurt very much.

Antibiotics Growth

—*Continued from page 7*

that antibiotics like bacitracin, neomycin and polymyxin are preferred for topical application because these drugs are not absorbed from the skin, do not induce allergic reactions and possess extremely low sensitizing potentials.

"And importantly," he added, "these antibiotics are not prone to the development of resistant strains of bacteria."

Furthermore, Mr. Hetzel declared, there is no evidence that bacitracin, polymyxin or neomycin may induce sensitivity to the antibiotics normally used systemically. "In fact," he said, "these drugs are seldom employed in the treatment of serious systemic illnesses."

Evaluation of a number of antibiotic topical preparations as deodorants showed neomycin to be the most effective against all strains of the staphylococci bacteria, which are responsible for auxiliary odor production, Mr. Hetzel said.

He added that in clinical practice neomycin cream and polymyxin ointment have been reported valuable in those patients who could not tolerate the standard aluminum salt deodorants.

Alcohol Tax

—*Continued from page 7*

(a) of the Internal Revenue Code of 1954 provides in part that the internal revenue tax on distilled spirits shall be determined when the spirits are withdrawn from bond.

Section 5011, making provision for abatement, remission, refund, and allowance for loss or destruction of distilled spirits, provides in part that no tax shall be remitted or refunded where the loss occurs after the tax was determined, as provided in section 5006(a), and the spirits withdrawn from bond.

In was added that section 225.497 of the regulations relating to internal revenue bonded warehouses provides that nothing in section 5011 of the Internal Revenue Code or in such regulations shall be construed to authorize refund of the tax where the loss occurred after the tax was paid.

The agency therefore ruled that "there is no interval between the determination of tax and the withdrawal of the distilled spirits from bond during which the spirits could be lost or destroyed. Accordingly, losses occurring after the tax has been determined or fixed are not allowable losses under section 5011 of the code."

Public Relations

—*Continued from page 4*

tions program involving all segments of the industry.

"First, to do some constructive program planning to meet the growing need for technically trained people in all phases of scientific work relating to chemicals and drugs.

"Second, to provide an industry-wide public relations program aimed at an international audience to promote a wider acceptance for American-made products in the free world where Russia and the other Communist countries are looking for distribution of their goods.

"It is this distribution that could determine the extent of the industrial and technical supremacy, which will be so important to our security in the years ahead," Mr. Stokes said.

"A two-pronged industry-wide effort can be an effective media for the attainment of these goals," he concluded.

FDA Holds Fast

—*Continued from page 4*

lion for residues of endrin on these crops had been proposed originally by Shell Chemical Corporation, New York, in a petition filed under the Miller pesticide law. Data supplied with the petition showed, however, that if endrin is used by the grower in accordance with directions, no amount of the pesticide would remain in or on the crops at harvest.

In the light of this information, FDA officials said, it was felt that a zero tolerance should be set in accordance with the policy previously established.

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Paint Manufacturing Begins At New Plant in Lebanon

A new paint manufacturing plant at Beirut, Lebanon, has started production, according to an announcement by Hanna Paint Manufacturing Company, Columbus, Ohio, through its subsidiary, James B. Sipe & Co., Pittsburgh, Pa.

The plant will be chartered as Sipes International Paint Manufacturing Company, and will operate on a separate corporate basis. Sipes International will manufacture and market paint products under the same formulations and tradenames used by James B. Sipe & Co. in Pittsburgh. Present plans call for the new plant to serve the market in Lebanon, Saudi Arabia, Iran, Jordan, Syria, Iraq, Egypt and Turkey. Ralph P. Elmer has been appointed general manager of Sipes International.

Nat'l Gypsum Will Develop Asbestos Quarry in Canada

National Gypsum Company, Buffalo, N. Y., plans to develop an asbestos quarry and mill in Canada, it was disclosed last week by Melvin H. Baker, chairman of the board.

"Two new plants," he indicated "are contemplated for the manufacture of new products now going through pilot tests. And we will continue surveys and engineering studies directed to the production of gypsum on the Pacific Coast and in Canada."

Mr. Baker also reported that three new installations are "well under way." Two are gypsum processing plants at Westwego, La., and Burlington, N. J., and the third is a facility at Anniston, Ala., that will manufacture paper liners used in the manufacture of gypsum board.

Masury Firm Plays Host To Hoffman's Executives

The Hoffman Paint & Wallpaper Company's management and sales force were guests of John W. Masury & Son, Inc., at a recent sales meeting to acquaint the Hoffman organization with new products and sales promotional material to move them.

Among the guests present were Sam Hoffman, president of the wallpaper company; Floyd Hitt, vice-president, and Ernie Cosman and Art Bertram, store managers. Playing hosts to guests were H. Braith Davis, chairman, of the board of Masury; Frank P. Connolly, president, and Arthur L. Smith, executive vice-president. The sales meeting was held in Masury's new convention quarters in Baltimore, Md.

Indiana Standard Officials See No Threat from Atom

Atomic energy poses no challenge to the petroleum industry in the foreseeable future, according to chairman Robert E. Wilson and president Frank O. Prior of Standard Oil Company (Indiana), Chicago.

In an annual report to stockholders issued by the company, it was felt by Mr. Wilson and Mr. Prior that atomic energy would gradually become a burden-sharer, rather than a competitor, as energy demands continue to rise.

They anticipated a 4 percent increase in demand for petroleum products in 1956, emphasizing that long-range planning would continue to take precedence over making a temporary good showing.

Synthetic Fiber Expansion To Be Boosted by Soviet

The Soviet government has decided to invest 11 billion rubles in artificial fiber and supporting industries during the new five year plan, in an attempt to overcome chronic shortages of consumer goods.

Under the plan, production of "Kapron," the Soviet equivalent of nylon, "Lavason," "Nitron" and "Anid," is expected to reach an annual rate of 330,000 tons by 1960, as compared with 110,000 tons in 1955.

Penicillin Rules Revised

The Food and Drug Administration has modified its regulations to provide for the certification of benzathine penicillin G in streptmycin or dihydrostreptomycin sulfate solution. The requirements applying to this type of penicillin are the same as those applying to proclaine penicillin in steptomycin or dihydrostreptomycin sulfate solution.

Benzol Products Appoints

Benzol Products Company, Newark, N. J., has named Philip C. Burnham, jr., to direct operations at its Philadelphia sales office, 101 North Thirty-third street.

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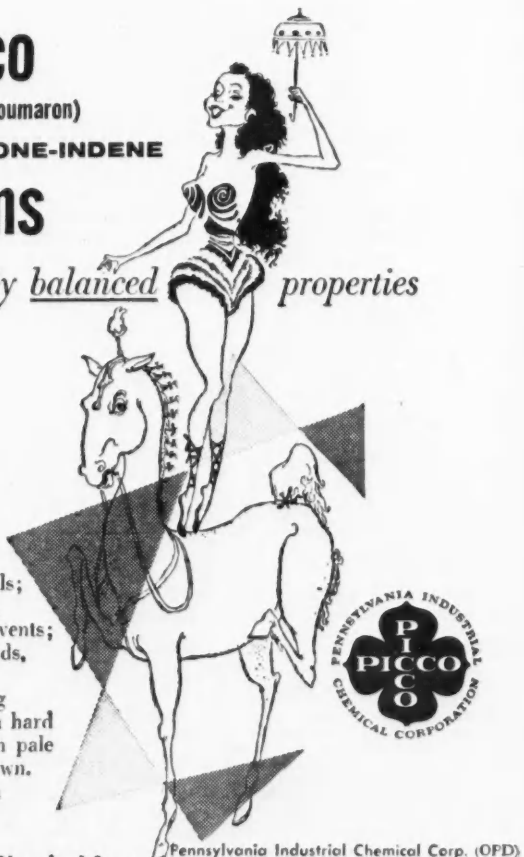

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Chief Sanitary Engineer, International Sales, The Dorr Company

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Petroleum Derivatives

Producers of both microcyrstalline and paraffin wax advanced the price of their commodity to non-contract customers last week. The price will be advanced for contract buyers on the first of April. The advance, ½c. per pound, is necessary, producers said, to offset the rising cost of production and the growing expenses of the expanding wax industry.

Difficulties besetting the automotive industry, solvent producers noted last week, were, to-date, not directly effecting their market. Most producers agreed that the strength of the summer seasonal material sales at this time is acting as a buoy. This market will continue into May, at which time the automotive industry will once more become the strong and outstanding factor in the market.

World crude oil production during June averaged 14,949,000 barrels daily, according to a Bureau of Mines report. This was a slight decrease from the figures of the previous month. Total crude petroleum in the Middle East averaged 3,231,000 barrels daily, a decrease of 2.6 percent from May. Iranian production during June rose sharply to 362,000 barrels daily, an increase of 26.1 percent. Daily average production in Iraq reached a record 701,000 barrels. These gains were offset by daily average declines in Saudi Arabia (6.4 percent) and in Kuwait (11 percent). Production in Venezuela during June averaged 2,073,000 barrels daily, a minor change.

Price Trends

Advanced

Petrolatum, 3/8c. per lb.
Wax, microcrystalline, 1½c. per lb.
Paraffin, ½c. per lb.

Reduced

None

Comparative Price Indexes
(100—1949 average)

Last week	Prev. week	Last month	Mar. 3, 1955
104.53	104.37	103.32	104.42

For Current Prices see Page 9

Solvents and Diluents

Benzol—Producers reported no immediate slackening in demand for this commodity last week, in spite of the turn of events in the automotive industry. Most producers claimed that production of seasonal material such as agricultural chemicals and insecticides was now making steady demands upon many of the solvents. This condition, it was noted, would act as a substantial buoy into May, at which time the seasonal production period is pretty much through. Beyond that, producers said, the solvents field would once more be heavily dependent upon the industrial (automobile) sales.

Toluol—Production continued to be keyed to demand, producers reported last week. Some advance has been noted in demand from the chemical industry, it was reported, where petroleum toluol is in the stages of development as a chemical raw material. However, the industry on the whole continues to show some softness, reflecting its decline from the strength of a number of years ago.

Xylol—Growing insecticide and agricultural chemical sales and production were considered the major positive factors in this market last week. A negative factor was the deminishing automotive industry market which, though not making its decline felt immediately, inevitably would if present conditions prevailed.

Lighter Fractions

LPG's—The daily average production of natural gas liquids in December was 33.5 million gallons, 9 percent greater than during December 1954, according to the Bureau of Mines. The daily average production of liquefied gases at refineries was 5.6 million gallons, 26 percent higher than a year ago. The demand for liquefied gases for fuel and chemical uses in December was 24 million gallons per day, 3.2 million gallons per day higher than in November. Stocks of liquefied gases declined 137.5 million gallons during the month. The production of natural gas liquids in 1955 averaged 30.4 million gallons per day. This was 4.7 percent greater than the final 1954 production figure. The production of liquefied gases at refineries was 28 percent higher in 1955 than in 1954. Stocks of both liquefied gases and gasoline at plants and terminals were lower at the end of 1955 than they were a year previous.

Butane—Production of butane in December was recorded at 127,172,000 gallons at plants and 39,942,000 gallons at refineries with a total figure of 167,114,000 gallons for the month. Stocks at plants, terminals and underground were tallied at 162,287,000 gallons on December 1 as compared with the 270,231,000 gallons computed for the month previous. Demand was computed at 102,137,000 gallons, including an 82,014,000 gallons figure for deliveries from plants and terminals for use in gasoline.

Propane — December production for this LPG was 370,773,000 gallons, with 282,363,000 at the plant and 88,410,000 gallons at refineries. Stocks at plants, terminals and underground were computed at 162,287,000 gallons on December 1 as compared with 270,231,000 gallons of stock on November 30. Demand for December was estimated at 480,901,000 gallons.

Crude Oil Stocks

Stocks of domestic and foreign crude petroleum at the close of the week ended Feb. 18 totaled 256,645,000 barrels according to data reported to the Bureau of Mines. Compared with the total of 253,484,000 barrels for the preceding week this represents an increase of 3,161,000 barrels comprising an increase of 2,306,000 barrels in stocks of domestic crude and an increase of 855,000 barrels in stocks of foreign crude.

Waxes

Microcrystalline—The first price shift of the year went into effect last week for non-contract buyers. The advance will go into effect for contract buyers on April 1. Producers attribute the advance, ½c. per gallon, to a rise in production cost and the expansion of the industry as a whole.

Paraffin — Most producers advanced all grades of paraffin wax, ½c. per pound last week. The advance went into effect for non-contract customers on the 1st; it will go into effect for contracted buyers on the 1st of April. Sales continued strong in all areas and levels.

Miscellaneous Materials

Crude Oil—World crude runs to stills, as reported by the Bureau of Mines, averaged 13,325,000 barrels daily in June, an increase of 1.4 percent.

Petrolatum — Prices were advanced 3/8c. per pound, across the board, last week, it was reported. The increase, according to a release by the major producer leading the advance, was attributed to rising raw material costs and stiffening transportation rates. Petrolatum advanced ½c. per pound in price about a half year ago.

Oils Fats and Waxes

Edible oils, led by soybean oil continued to advance under active trading. Prices were strong and sharply higher for soybean and corn. Cottonseed oil was firmer and advanced slightly. Demand for peanut oil was light at unchanged prices. Olive oil reacted lower locally due to reports from Spain that embargo has been lifted on shipments for which export licenses had been issued. This caused prices to drop 25 cents per gallon for oil on spot.

Linseed oil was irregular and fluctuated with flaxseed. Prices closed firmed and fractionally higher. Oiticica oil was firm with sales reported at a fractional increase. Brazilian castor oil also was firm and higher. Lack of buying interest for tung oil weakened the market and prices were off fractionally.

Trading in tallow and greases was moderate, principally for domestic account, while export business was light and spotty. Quotations of both materials were fairly steady at prevailing levels. Lard was steady and without change.

Soybean meal was easy and lower for nearby, while later positions were steady. Trading in cottonseed meal was limited, while interest was more active for linseed meal.

Trading in vegetable waxes was confined to actual needs. While business was light, market remained steady. Carnauba grades were held at former levels. Crude beeswax rallied and crude grades were firmer. Candelilla continued scarce and quotations were more or less nominal.

Price Trends

Advanced

Acid, linseed, 4 10c. per lb.
Cocoa butter, 1½c. per lb.
Oil, castor No. 1 Braz., ½c. per lb.
Corn, crude, ¼c. per lb.
refd., ¼c. per lb.
Cottonseed, crude, ½c. per lb.
Linseed, 4 10c. per lb.
Soybean, crude, ½c. per lb.
refd., ½c. per lb.

Reduced

Oil, olive, 50c. per gal.
Tung, ¼c. per lb.
Soybean meal, $1 per ton.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Mar. 4, 1955
99.01	99.47	101.67	111.47

For Current Prices see Page 9

Vegetable Oils

Castor—Fair volume of business was reported for domestic and imported oils. Prices were firm. No. 1 Brazilian was advanced to 15½c. per pound, tankcars, New York, prompt delivery.

Coconut — Steady tone prevailed and crude was held at 10¾c. per pound, tankcars, f.o.b. Pacific coast and 12c. New York basis, prompt delivery.

Corn—Market was stronger with crude sales reported at 15¼c. per pound, tankcars, f.o.b. mills. Refined was higher at 18¾c. per pound, tankcars, New York, prompt delivery.

Cottonseed—Futures were irregular last week declining sharply midweek with soybeans and other allied markets. Later the market rallied and regained a portion of the decline. Trading was heavy and prices reached new highs early in the period but were not sustained. The undertone of the market remained steady and reflected the firmness of crude and refined cash oils. Tenders on March contracts totaled 223, the bulk of which were taken by exporters. Open interest increased to 5,419, a new high. Refined salad cottonoil was maintained at 17¾c. per pound, tankcars, New York, prompt delivery.

Crude cottonseed oil closed steady, with sales at 14c. per pound, tankcars, f.o.b. mills in the Valley and 13¾c., Waco.

Consumption of refined cottonseed oil in January totaled 2,270 tanks against 2,773, January last year. Visible supply was estimated at 19,342 tanks compared with 22,624 for same period last year.

Cottonseed Oil Futures

Sales and prices of prime summer yellow cottonseed oil futures in tankcars (60,000 pounds) on the N. Y. Produce Exchange for the week ended Friday, March 2, follow:—

	Sales	High	Low	Close
		—Cents per pound—		
Mar.	175	16.60	16.10	16.61 Bid
May	568	16.70	16.23	16.70S
July	750	16.68	16.23	16.63S
Sept.	375	16.11	15.61	16.00S
Oct.	82	15.86	15.30	15.55S
Dec.	111	15.58	14.70	15.04S
Jan.	13	15.30	15.10	14.99 Bid

Total sales, 2,074 contracts.

Linseed — Further advances in flaxseed was reflected in oil and quotations were lifted 4/10c. per pound. Buying interest continued to lag as consumers confined activity to the withdrawal of oil against former contracts. Raw oil was quoted at 15.6c. per pound, tankcars, f.o.b. Minneapolis, March-August delivery.

Flaxseed — Market irregular, but firm, up 5c. per bushel.

Minneapolis. — Cash flaxseed prices dropped about 10c. a bushel after reaching $3.80, Minneapolis delivered price, late in the previous week. Both spot and to-arrive seed hit that level, then eased as exporters temporarily quit buying. Crushers were more intent on selling flax at these high prices than in processing it. More than 500,000 bushels of seed were sold for export in the first three days of the week, according to trade reports. There was considerable buying resistance on the advance and virtually no spot cash market as only 3 cars were offered for sale. Bookings to-arrive.

Receipts and shipments of flaxseed, in bushels, were as follows:—

	Receipts 1955-56	Shipments— 1955-56	1954-55
Past week	637,000	201,250	30,750
Since Sept. 1	20,223,350	3,603,250	4,317,250

Oiticica—Liquid was sold at 15c. per pound, tankcars, New York, prompt and later delivery. Drums were unchanged at 16¼c. to 16¾c. per pound, according to quantity.

Olive—Spot market was easier due to reports from Spain that the government will allow oil shipments on contracts for which export licenses had been issued. This caused buying interest to slacken here and quotations declined 25c. per gallon. Oil was offered from $3.65 to $3.75 per gallon, drums, duty paid, spot, depending upon seller and quantity.

Soybean—Crude was stronger and closed sharply higher. Trading was active. Crude was sold at 14⅛c. per pound, tankcars, f.o.b. Decatur, March delivery; 14c. April; 13¾c. bid May-June and 13½c. bid July-August. Refined salad was lifted to 17⅛c per pound, tankcars, New York, prompt delivery.

Crude soybean oil consumption in January totaled 4,517 tankcars against 3,690, January, 1955. Visible supply end of January estimated at 15,570 tanks against 7,960 a year ago, soybeans crushed (October-January indicated at 99,093,000 bushels, compared with 6,597,000, for same period a yea rago.

Soybean Oil Futures

Sales and prices of crude soybean oil futures in tankcars (60,000 pounds) on the New York Produce Exchange for the week ended Friday, March 2, follow:—

	Sales	High	Low	Close
		—Cents per pound—		
Mar.	13	13.80	13.80	14.10@14.30
May	28	13.90	13.28	13.90S
July	21	13.55	13.13	13.55S
Sept.	3	12.66	12.66	12.91@13.00
Dec.	6	11.85	11.51	11.65 11.66

Total sales, 70 contracts.

Tung — Continued slow demand unsettled the market and quotations were shadable. Tankcars ranged from 26c. to 26¼c. per pound, New York, prompt and later delivery. Offers from Argentine were freer. Drums ranged from 27½c. to 28c. per pound, spot as to quantity.

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3 BETTER KEEPING QUALITIES	The superior resistance to rancidity and yellowing of Emersol Stearic Acids will keep your products fresh and sales-appealing longer.
4 UNIFORM PERFORMANCE	The controlled quality and composition of Emersol Stearic Acids result in consistent performance of your products.
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Titre	26°–29°C.
Color 5¼" Lovibond Red	2.5 max.
Color 5¼" Lovibond Yellow	15 max.
Color Gardner 1933	2–4
Unsaponifiable	0.25%–0.50%
Saponification Value	251–258
Acid Value	250–257
Iodine Value (WIJS)	7–15

Lefevre observed that tallow under the influence of sulfuric acid and supplemented by coconut oil yields fatty acids. Just eight years later, A. Gross & Company began to manufacture fatty acids for industry. Today, the Coconut Fatty Acids made by A. Gross exemplify the high standards of quality which research and modern production techniques have made possible. Shown in the table are specifications for GROCO 26 – STRIPPED COCONUT FATTY ACIDS from which a major portion of the lower acids has been removed.

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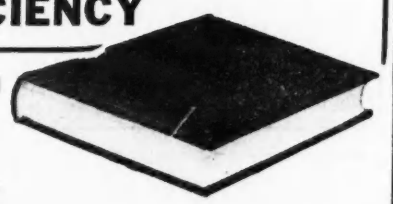

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Oils. Fats and Waxes

Miscellaneous

Castor Beans—Shipments were quoted nominally at $125 per ton, f.o.b. Brazilian ports. Market was strong.

Imports of castor beans and castor oil at New York and Philadelphia last week were as follows:—

	Pounds—Beans	Pounds—Oil
Last week	168,900	.....
Previous week	2,568,000	1,900,000
Corresponding week, 1954	3,174,000	3,312,000
Total this year	12,606,900	16,003,600
Corresponding period, 1954	23,189,000	14,728,000

Cocoa Butter—Market was stronger and advanced to 48½c. to 53c. per lb. spot, as to quantity.

Copra—This market was steady, with shipments quoted at $150 per ton, c.i.f. Pacific coast.

Fats and Greases

Greases—Trading was reported chiefly for domestic account. Export business was limited. Yellow grease was maintained at 7c. to 7¼c. per pound, tankcars, delivered, as to acid. Choice all hog sales were reported at 7⅜c., tankcars, delivered, and 7½c. asked. Not all hog was nominal at 7⅛c. to 7⅜c., same basis.

Lard—This market was quiet and steady. Cash lard was unchanged at 11.80c. per pound, drums, Chicago.

Oleo Oil—Extra remained steady at 13½c. to 13⅝c. per pound, drums as quantity. Oleo stearine remained unchanged at 11c. to 11½c. per pound, barrels, same basis.

Tallow—Business was moderate, and confined to domestic delivery. Export business continued slow. Bleachable fancy was reported sold at 7⅜c. per pound, tankcars, delivered and to soapers at ⅛c. less. Extra was quoted at 7⅛c.; special, 7c. and No. 1, 6⅞c. Guaranteed fancy was nominal at 9c. to 9⅛c. per pound, drums, f.a.s. and 8c. in bulk for April shipment.

Cake and Meal

Cottonseed Meal—Demand continued light and spotty. Mills indicate tonnage is small and that they can move most of it locally. Old process forty-one percent was offered at $52 per ton sacked Memphis and Mississippi Valley points; $54.50 Alabama; $57 Georgia and South Carolina mills, March shipment and forty-one percent solvent at $46.50 f.o.b. Mississippi Valley points, March shipment.

Soybean Meal—Buying interest was slow and prices have shown some signs of weakness. Processors are offering freely for immediate shipment, which has kept nearby lower than futures. Forty-four percent unrestricted was quoted at $48.50 per ton for immediate shipment; $49.50 March, $52 April-September; basis Decatur and $52 f.o.b. Mississippi Valley points for March.

Waxes

Consumers continued to limit purchases to actual needs. Despite light trading the carnauba market was quite steady and unchanged, reflecting the firmness of replacements from Brazil. Recently Brazilian floor prices of yellow were raised 4c. per pound and dark grades 2c. Crude beeswax rallied and became steadier, following an easier tone in African. Stocks of candeilla were scarcer and quotations were firm for both crude and refined. Japan wax also was in small supply and in firm hands.

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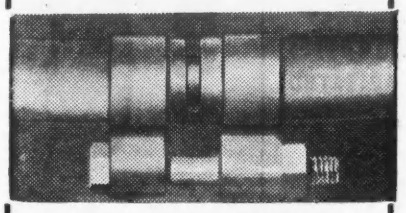

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Study the illustration above and you will instantly notice the exceptional neatness and simplicity of the closure.

This closure—made with a "Spin-Seal" Bolted Locking Ring—is different from the common locking ring. It is improved by having the nut enclosed as an integral part of the lug. The nut can't get lost and it saves much time in making closures.

Used with DRUM PARTS Combination Closing Tool and Wrench your drums can be closed and sealed in a small fraction of the time required with other types of rings.

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DRYERS AND KILNS
Devine #12 & #23 Vac. Shelf Dryers.
Stokes 2'x6' Rotary Vac. Dryer.
2—Allbr. Nell 4x9 Atmos Drum Dryers.
1—Buffalo Vac. Drum Dryer, 24"x20"

CENTRIFUGALS AND CENTRIFUGES
4—Tolhurst 40" Suspended Type.
8—Centrifugals, 12", 20", 26", 30", 40" & 48" Steel, Copper, Stainless & Rubber.
6—Sharples No. 5A Stainless & #6.
2—De Laval Multi Clarifiers 300 & 301.

FILTERS
#2 Sweetland Filter 12 Stainless covered leaves
1—Vallez Filter #49 with 41 Stainless covered 44½" dia. leaves.
Gen. Amer. 2'x1' Rotary Vac. Filter.
Sperry and Shriver 6" to 36" iron & wood.
Sweetland & Oliver Filters.

KETTLES AND TANKS
Pfaudler 500 gal. Glass Lined Jack Reactor.
Pfaudler 250 gal. Glass Lined Jack. Kettle.
Dopp 350 gal. Agit. Jack Cl. Vac Kettle.
2—Impreg. Units 30" & 36" dia. complete.
500 & 1,000 gal. closed Jack. Steel Kettles.
2300 gal. vert. agit. Jack. Steel Kettle.
1—250 gal. Lead lined Kettle.
Stainless, alum., copper. Glass lined, lead lined and steel kettles and tanks.

PULVERIZERS AND MILLS
2—Mikro Pulverizers #2TH & #2SI.
Abbe 37"x30" chrome-mang. Ball Mill.
Patterson 30"x42", 4'x5' & 6'x4'.
Abbe 30"x30". Also Jar Mills.
#1 Raymond Autom. Pulverizer, 20 HP.
1—#00 Raymond Mill, 30 HP complete.
2—#0000 Raymond Mills.
Sturtevant #0, 18" hinged Hammer Mill.
Schutz-O'Neill #1 & 20" Pulverizers.
Williams #3 & 2XX Hammer Mills.
Ball & Jewell Rotary Cutters Lab & up.
Jeffrey 18"x18" single Roll crusher.
2—Robinson 18" & 22" BB Attrition Mills.
1—Lehman 4 roll WC., 12"x36" Steel Mill.
4—Lehman & Kent 3 Roll Steel Mills, 9" x32", 12"x30", 16"x40".
1—Monarch 9"x24" Steel Roller Mill, 3 pr. high. Also 7½x20, 4 Roll.
Houchin 18"x30" 4 Roll Granite Stone Mills.
2—U.S. & Premier 1½ H.P. Colloid Mills.

MIXERS, SIFTERS & SCREENS
Day Imperial 75 x 120 gal. Jack.
Lancaster 6' dia. Vert. Mixer 25 HP.
Kent 3 HP. continuous dry mixer.
Baker Perkins double arm Mixers, 100 & 50 gals. Also single arm Mixers.
Blystone 3000# horiz. spiral mixer.
Day Brighton 20 gal. Change Can Mixers.
Read 50 & 100 gal. double arm mixers.
Read 80 qt. vert. mixer, 3 speed.
Orv. Simpson 20"x48" Rotex Sifter
Tyler 3'x5' Vibratory 2 deck Screen.
10—Dry Powder Mixers, 50 to 3,000#.
3—Day 8, 15 & 40 gal. Pony Mixers.
15—Portable Elec. Mixers, ¼ to 3 HP.
6—Lead and Paste Mixers to 150 gals.

MISC. AND SPECIALS
Rux 2½" dia. Tablet Machine.
Tablet Machines, Single Punch & Rotary.
Anderson & French Oil Expellers.
Kane 2 H.P. Gas Boilers, 200# pressure.
3—Stokes and Day Powder Fillers.
Filling Machines & Labelers.
Pneumatic Scale Automatic Capper.
1—Howe Mogul barrel and bag packer.
2—Worth 12"x12"x12" Vac. Pumps.
8—Devine, Buffalo, Stokes Vac. Pumps.
Conveyors & Elevators.
Soap Machinery for Toilet, Laundry, etc.
Centrif., Rotary, Duplex & Triplex Pumps.

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BRILL EQUIPMENT CO.

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Purchased 1953 Used 30 Days*

TANKS
1—Pfaudler 5'x18' Horizontal glass lined, 2500 gal.
1—Pfaudler 78" x 96" Vert. Glass lined 2300 gal.
2—1500 gal. 316 S/S 5' x 9' Vert. 20 PSI.
1—7500 gal. 316 S/S clad 12' x 6' x 5'6" cone.
1—750 gal. 316 S/S 5' x 5' cone bottom.
3—4' diam. 316 S/S Conical Hoppers.
2—3' x 32" 316 S/S Conical Hopers.
1—2' x 3' Horizontal Closed 316 S/S.
1—2½' x 3½' Horizontal Closed 316 S/S.
2—3' x 3½' Horizontal Closed Nickel Clad
2—7' x 11' Vert. Steel Brick & Lead lined.
1—7' x 7'4" Vert. Steel Brick & Lead lined 50 psi.
1—6' x 6' Vert. Steel Brick & Lead Lined.
1—4' x 5'6" Vert. Steel Brick & Lead lined, 50 psi.
4—4' x 8' Hor. Steel ASME 25 psi.
1—4' x 5'6" Hor. Steel ASME 25 psi.
2—3' x 7' Vert. Steel ASME 25 psi.

PUMPS—CENTRIFUGAL
1—Lawrence Vert. 316 S/S 70 gpm 157' hd 20 HP.
1—Lawrence Vert. 316 S/S 55 gpm 107' hd 7½ HP.
2—Lawrence Vert. 316 S/S 50 gpm 107' hd 5 HP.
3—Karbate Series 5A 60 gpm 60' hd 5 HP.
9—Karbate new Impellers.
1—I.R. 1000 gpm Series 5CRVL 40 HP.
2—I.R. 1000 gpm Series 5CRVL 30 HP.
2—I.R. 650 gpm Series 5CRVL 30 HP.

CONVEYORS
3—Link Belt 316 S/S 18" x 12', 18" x 10' 18" x 7' twin screw.
1—Link Belt Steel 10" x 16' twin screw.
9—Link Belt 12" Troughing Belt Conveyors 15', 20', 30', 35', 45', 50' open and closed with drives and motors.

REACTOR—CONDENSERS
3—4' x 13' closed 316 S/S Reactors or Convertors with 109—3" x 6' 316 S/S tubes 150 psi.
1—Pfaudler 250 gal. Hastelloy C Reactor.
2—Pfaudler Monel Heat Exchanger 62 sq. ft.
8—Karbate Heat Exchangers 188, 70, 16.4 sq. ft.

DRYERS
1—Buflovak 6'x5'6" Monel Drum Flakers NEW with drives and motors.
1—Rietz 30' "Thermoscrew" Conveyer Dryer 304 S/S NEW with drive & motor.

MISCELLANEOUS
1—I. R. Jet Refrigeration Unit, complete, 136 Tons 50°F, to 45°F.
1—Patterson 7'6" Conical Blender Rubber lined with drive & 15 HP motor.
3—Buffalo-Forge Fans 10,000 cfm at 7" S.P., 20 HP motor.
20—Link Belt Reducers and drives from ¾ HP to 15 HP.

* All motors are 3/60/440 V. explosion proof.

SPECIAL
400 S/S Valves ½" to 4" flanged and screwed. Large quantity of Tube Turns, Ells, Tees, Flanges, Bushings, 1" to 5". Porcelain Valves 1" to 4". Glass Lined Valves 2" to 3".

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IN STOCK

DRYERS
3—**Link Belt Roto-Louvre 7'5"x20', 5'2"x20', 3'10"x12'.**
3—Hersey 4'x30', 3'x20', 18"x12' S/S Hot Air Rotary.
1—**Struthers-Wells 5'x15' nickel Rotary Vacuum.**
2—Buflovak 42"x120" Atmos. double drum.
1—Buflovak 2'x4' double drum vacuum.
1—Devine single door Vacuum Shelf with six 40"x43" shelves.
3—Devine double door Vacuum Shelf 17 and 20—59"x78" shelves.
3—Stokes Rotary Vac. 3'x15', 30"x8', 18"x42".
1—Devine Rotating Vacuum 5'x10'.
2—Louisville Rotary Steam Tube 38"x25', 6'x40'.
5—Rotary Dryers 5'x30', 5'x40', 4½'x50', 6'x40', 6'x74'.

MIXERS
1—**Patterson-Kelly 75 cu. ft. S/S Twin Shell 10 HP, XP motor.**
8—Day "Cincinnatus" double arm 660, 250, 100 and 50 gals.
3—Abbe Aluminum Powder 12, 20 and 40 cu. ft.
9—Steel jacketed Powder 50, 225 and 350 cu. ft.
1—Struthers-Wells 6'x9' S S Rotating, jacketed.
2—**Robinson S/S jacketed Powder 48"x7'6" long, 90 cu. ft.**

MILLS
1—Patterson NEW 6'x8' Porcelain lined Mill 50 HP motor.
3—Abbe Paterson 6'x8' unlined Ball Mills.
3—Abbe 5'x6', 4'x5', 3'x3½' Silex lined Pebble Mills.
1—**Mikro Pulverizer #4TH.**
1—Fitzpatrick Model D Comminuter, 3 HP motor.
1—National 6"x12" Two-Roll Mill, motor driven.
1—**Williams 12"x18" S/S Hammermill.**

CENTRIFUGES
1—**Sharples PN-14 Monel, Super-D-Canter, 10 HP, TEFC motor.**
2—Sharples C-20, C-27, Super-D-Hydrators, 316 S/S.
2—**Bird 18"x28", 36"x50", stainless and steel, Solid Bowl Continuous.**
1—**AT&M 40" Suspended rubber covered, perforated basket.**
4—Tolhurst AT&M 40", 36", 32", Suspended steel, stainless.
1—Bird 40" Suspended, rubber covered, imperforate basket.
1—AT&M 36" center-slung, rubber covered, perforated basket.
1—Fletcher 30" center-slung, S S perforated basket.
1—Tolhurst 26" suspended, rubber covered, perforated basket.
1—**Fletcher 20" suspended S/S perforated basket.**

REACTORS, CONDENSERS, TOWERS, TANKS
1—**2500 gal. 304 S/S jacketed Reactor.**
8—4000 gal. 7'x14' Steel jacketed, agitated Kettles.
6—8000 gal. Steel Mixing Tanks with coils.
1—10'x16' Aluminum Tank, ½" shell, 10,000 gals.
2—**5,000 gal. Vertical 347 S/S Tanks ½" shell.**
2—Pfaudler 100 gal. glass lined, jacketed, agitated Reactors.
1—8500 gal. Horizontal Pressure Tank, 275= W.P.
2—10'x40', 10'x30' Horizontal Storage Tanks ½" shell.
5—S/S Towers 7'x25'6", 4'x30', 12"x14'.
25—Atmospheric S/S Heat Exchangers 715 & 477 sq. ft.
1—Struthers-Wells 536 sq. ft. S/S Heat Exchanger.

FILTERS
1—**Oliver 8'x10' Monel Rotary Vacuum.**
3—Eimco 18"x24", 18"x12", 316 S/S Rotary Vacuum.
1—Feinc 3'x1' S/S Rotary Vacuum String with Pumps.
1—Feinc 5'x3' Monel Rotary Vacuum String.
2—#3 Sweetland S/S Filters, 12-25" dia. leaves 75 sq. ft.
4—#3, #5, #7, #12 Sweetland Filters.
4—Shriver 36"x36", 30"x30", c.i. Filter Presses, P&F, washing.

MISCELLANEOUS
1—**Foster Wheeler Dowtherm Unit 4½ million BTU.**
4—Orville Simpson Rotex Sifters 40"x120", 40"x84."
6—Robinson, Sprout Waldron S/S Sifters 40"x84", single deck.
11—**Stokes DDS2, D4, "R", and "T" Tablet Presses.**
2—Ball & Jewell #2, #1½ Rotary Cutters.
7—Nash Vacuum Pumps #H7, #H6, #L5, #4, #2.
2—Beach-Russ Model "D" Vacuum Pumps 50 cfm.
7—Durco S/S Centrifugal Pumps 1" to 3".

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PERRY EQUIPMENT CORP.

IN STOCK

KETTLES

3—Bartlett Snow 6' dia. x 3' deep Jacketed and Agitated Stainless Steel Crystallizing Kettles.

4—Jktd. St. St. closed—to 450 gal.

35—Jktd. St. St. open top—to 550 gal.

5—Jktd. Aluminum, closed, 35 to 250 gal.

MILLS

1—Ross 3—Roll Ink Mill, 9"x24".

1—Day 3 Roll Ink Mill, 16"x40".

1—St St. 3—Roll Ink Mill, 7"x14".

1—St. St. Pug Mill, two 7" dia. x 39" L overlapping chambers, jacketed.

1—Patt. Fdy. "DJ" Unlined Jacketed Steel Ball Mill, 6' dia. x 8' long—UNUSED.

2—Pebble Mills, 6' D x 8' L.

4—Abbe Pebble Mills, 38"x42", 38"x48", 48"x42".

1—Al. Ch. 6' D x 16' L Steel Lined Contin. Ball Mill.

3—4'6" D x 12' L contin. Pebble Mills.

1—Hardinge 6' D x 22" L Conical Ball Mill, Steel liner.

1—Charlotte #50 Colloid Mill, 75 HP.

1—Penna. Ring Type Granulator, Trojan K3-24, 40 HP.

3—Fitz. Mills, St. St., D-6, F-8, & K.

5—Hammer Mills: Jeffrey 42x36 Gruendler 36x24; Jay Bee #4-W, 75 HP; Williams 14"x14"; Williams size A, St. St. and Aluminum.

1—Sturtevant 8x10 Jaw Crusher.

3—Attrition Mills, 30", 24" & 16".

3—Mikro Pulv. #2-DH; #2-TH; 3-TH.

MIXERS—BLENDERS

3—Readco Heavy Duty Double Arm Sigma Blade Jacketed Mixers, 50 gal. work. cap., 30 HP Expl. Pr. Motor. Built 1951-53.

4—Sprout Waldron Ribbon Mixers, 336 cu. ft. (12,000 lbs.) work. cap.

2—W&P Sigma Blade Double Arm Jacketed Mixers, 100 gal. work. cap.

1—Patt. Kelly St. St. Twin Shell Blender, 5 cu. ft. work. cap.

7—Side Entering Stainless Steel Mixers, 10 HP to 25 HP.

3—Falk Vert. Agitator Drives #10-GDX, 10:1, 300 HP—UNUSED.

12—Turbo vert. drives #5B, 5:1, 40 HP.

PUMPS

1—Ing. Rand #10-ALV Centrifugal Pump, bronze fitted, rated 3000 GPM @ 200'—UNUSED.

3—Centrifugal Pumps, 1000 GPM—50', 86' & 91' resp.

2—Ing. Rand #1½—CRVNL—all bronze Centrifugal Pumps, 2"x1½"—UNUSED.

12—Aurora All Bronze Turbine Pumps, models II-5, G-6, H-6—UNUSED.

2—Fuller-Kinyon 6" Pumps, 25 HP.

1—Byron Jackson Bronze Deep Well Turbine Pump, 20 HP, 150 GPM.

TANKS

6—4500 gal. St. St. Clad Jacketed Tanks with agitators.

1—St. St., T304, ⅛" 10,500 gal. Horiz.—UNUSED.

1—St. Clad. T304, ⅜", 6500 gal. Vert.

1—St. St. T316, 5/16", 4000 gal. Horiz.

10—St. St. Pressure Tanks—to 4000 gal.

20—St. St. Storage Tanks—to 1000 gal.

12—Aluminum, 3000 gal., 5 compart.

10—Aluminum, 500 gal., 80# WP.

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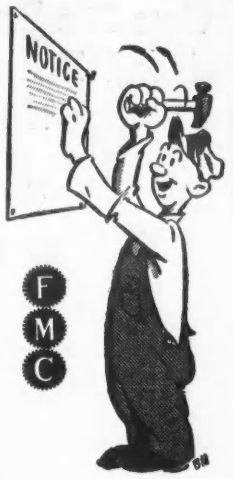

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ANNOUNCEMENT

FRED R. FIRSTENBERG,
President of the First Machinery Corp. of 209-289 Tenth St., Brooklyn, N. Y.,
announces the appointment of his son,
RICHARD FIRSTENBERG,
as Sales Manager
of the Falcon Manufacturing Division of the First Machinery Corp.

The Falcon Division is already in production of Ribbon Blenders in Steel and Stainless Steel, Tumbling Batch Mixers, Stainless Steel Kettles, Tanks, Rotary Cutters, Portable Agitators, and Specially Fabricated Chemical and Food Equipment, according to specifications and designs.

Richard Firstenberg, a product of Hun School of Princeton, and of the University of Vermont, has recently completed his tour of duty for the United States Military Services, and will head up an entirely separate staff and production facility, supplying NEW equipment to the Processing Industries.

For the convenience of the trade, a building adjoining the First Machinery Corp. will house the Offices, Showrooms and Shops of the Falcon Division. Because of the interrelationship, Falcon will be in a position to offer Trade-In Deals on the purchase of new equipment. Literature on the entire NEW FALCON line is now in preparation and will go forth to the trade shortly.

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2—Worthite Centrifugal Pumps, Model ICG1, with 1 HP Reeves Variable Speed Drives.
5—Worthite Centrifugal Pumps, Model 1CG1, with 1 HP motor.
1—Mikro #2 Pulverizer with 15 HP motor.

Chicago, Ill.

2—Stainless Steel 8000 gal. Vertical Mixing Tanks with stainless steel turbine and motor drive.
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1—Hardinge Rotary Dryer, 10' dia. x 100' long, Type XF-24 with motor and reducer.
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3—Buflovac 42x120, 32x120 Atmos dbl. Drum Dryers, complete; 1—American 24x36.
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9—Sperry 18"x18" Filter Presses, 11 ch.
1—Link-Belt Co. ROTARY DRYER, Roto-Louvre, #502-16 Type C, 5'2" dia. 16' long with #304 S/S contact parts.
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Mixers: #1½ Simpson; 300 gallon double Z Arm; "Day" #6 double Arm; 1½ ton "Marion"; 2000# "Day"; 40 gallon Pony; 1200 gallon stainless steel Tank; 12 x 32 and 16 x 40 Roller Mills; Rotex Sifter #7; Fillers, Labelers; Packaging equipment cheap. Send us your inquiries. I. E. Newman, 5602 Blackstone, Chicago, Ill.

For Sale: 2,800 gal. SS T304 oval Tank; 1,100 gal. SS T304 vertical Tank; 48" x 20 plate SS T316 Distilling Column; 150 sq. ft. T304 and 785 sq. ft. T316 SS Heat Exchangers; 6,000 gal. horizontal Aluminum Tank; 2-14,000 gal. glass lined Tanks; 24" x 36" Double Drum Dryer; 95-36 Niagara Filter. Best Equipment Company, 617 Davis Street, Evanston, Illinois. Davis 8-0926.

For Sale, 100 square feet stokes vacuum tray drier, equipped with S.S. trays, high vacuum pump. Used less than six months and can be seen operating OPD 894.

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Chromium Chemicals Data Offered

A new eight-page two color brochure on its chromium chemicals—Sodium bichromate, sodium chromate and potassium bichromate—has just been issued by Columbia-Southern Chemical Corporation. The booklet contains descriptions of the products, their properties, and safe handling data. It may be had free on request to Columbia-Southern, 632 Fort Duquesne blvd., Pittsburgh 22, Pa.

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FTC Ready to Roll

—Continued from page 3

FTC Bureau of Investigation, replied that prices of the antibiotics have come down, contrary to public belief, but added that he has another investigation under way in that field and has diverted a part of his staff to the inquiry.

The discussion between the chairman and Mr. Babcock continued:—

Thomas-Babcock Exchange

Mr. Thomas: "The price of antibiotics has not come down. They get from 45 to 50 to 60 cents a tablet in any drug store."

Mr. Babcock: "They are pretty high but from the point they started they have come down. I am now investigating an alleged conspiracy which in theory links up the wholesale drug group with the producers."

Mr. Thomas: "You say you are looking into the field of drugs and medicines?"

Mr. Babcock: "Yes. All drugs now go through a wholesaler."

Mr. Thomas: "Do you find anything like unison of action between the manufacturers?"

Mr. Babcock: "That is what we are looking for."

Mr. Thomas: "You have not quit, have you?"

Mr. Babcock: "I have not, but I am having trouble finding the evidence."

In a statement filed with the committee earlier to justify the recommendations for the $5,500,000 appropriation for the commission, FTC had the following to say regarding its study in the antibiotics field:

"The recent development of this industry holds substantial public interest. At the present time it is believed that more than 50 percent of the dollar amounts of all physicians' prescriptions written today are for antibiotic products.

Concern to Consumer Noted

"The pricing of these dosage forms is of direct concern to the consumer. The principal products are patented and distribution is by patent owners and their licensees.

"No information has ever been available as to the pricing and licensing policies of concerns in the industry nor the proportions of cost accounted for by past and continuing research.

"These questions are illustrative of the broad range of economic and legal problems which must be considered in a study of the organization and functions of the industry in its proper perspective.

"An antibiotics study group, consisting of legal and economic specialists, is presently conducting a preliminary analysis of the more significant problems."

FDA Is Attacked

—Continued from page 3

stop a manufacturer from using the additive later. Also, he charged, the burden of proof would be shifted under the bill to the government.

Statement by Paxton

Glenn G. Paxton, counsel for the American Baker's Association, American Institute of Baking, American Meat Institute, Dairy Industry Committee, and the Millers' National Federation, told the subcommittee in his supplemental statement that the position of the FDA was unsound for these reasons:—

Any proponent of a chemical additive that had been ruled on adversely could use the additive only at his peril. If he were to use it the FDA could institute proceedings at any time by declaratory judgment action, by an injunction, or by libel and condemnation proceedings. Similarly, the Department of Justice could prosecute criminally at any time after such use.

"It is absurd to assume that any appreciable number of manufacturers would use an additive carrying the stamp of disapproval of the FDA," he said, "without first obtaining a court judgment establishing its safety, or that the FDA would be so impractical as to institute a suit without reasonable cause to believe that the proponent is using or intends to use the additive."

Controversy Called Avoidable

Mr. Paxton charged that the entire controversy over this feature of the bill could have been avoided had the FDA given cognizance to the amendment proposed by industry at the outset of the hearings. This was that before anyone can use an additive, that has been ruled on adversely by the secretary, he must first give thirty days' notice to the secretary. Both the chemical industry and the grocery manufacturers' representatives supported the amendment, he added.

On the question of where the burden of proof would lie in the suits for declaratory judgment, Mr. Paxton said that while it is perhaps true that the party filing the suit would have the burden in the first instance of going forward with the evidence, the burden of proving the adequacy of the pre-testing to show safety of the additive would always remain on the manufacturer.

He pointed out that the bill provides that the additive cannot be used "unless such additive has been adequately pretested, and thereby shown safe for use under the conditions of its intended use." The manufacturer must always stand ready, therefore, to prove that his additive meets this test, Mr. Paxton declared.

Crane Co., Vitro

—Continued from page 5

in the production of titanium pigments, zircon for sale for processing by Heavy Minerals Company, and monazite, which is also to be processed by Heavy Minerals.

An associated operation has developed minable areas along the Gulf coast between Panama City and Pensacola, Fla. It will dredge-mine a mineral concentrate which will be separated principally into rutile, ilmenite, zircon and kyanite. Facilities will be built near Panama City for these purposes.

Crane is reported to be the world's largest manufacturer of valves, fittings and fabricated piping. It is leader in the plumbing and heating tindustry, a pioneer in titanium, a supplier of specialized equipment in the atomic energy field, and a contributor to many military and industrial developments requiring advanced metallurgy and engineering.

Vitro Diversified Company

Vitro Corporation of America is a diversified industrial organization heavily engaged in the atomic energy program, operating across the board in that field, from research and mining through engineering and design of production facilities. Vitro's background in uranium, rare metals and nuclear processing have given the corporation experience for the new rare earths operations.

The French associate, known as STR, is Societe de Produits Chimiques des Terres Rares, and is a thirty-year pioneer in the fields of thorium and rare earths and holds numerous patents on the processing of the minerals monazite, rutile, ilmenite and zircon.

Acetylene Milestone

—Continued from page 5

charge of operations of the dyestuff and chemical division, which will operate the plant, said, "A widespread industrial acceptance has already been achieved for the products to come from this new manufacturing operation."

A pilot plant for the acetylene derivatives has been operated by General Aniline at its Linden, N. J., installation since 1947 and a great many of the new products have been manufactured there in semicommercial and laboratory quantities. With full scale commercial production now under way, these products will be available to American industry at new low commercial prices and in multimillion-pound quantities.

Listed in the new product line to be manufactured at Calvert City are propargyl alcohol, propargyl bromide, butynediol, 1,4 butanediol, butyrolactone, pyrrolidone, methylpyrrolidone, vinylpyrrolidone, polyvinylpyrrolidone (PVP), and PVP-iodine.

The new plant is an integrated type and capable of being rapidly expanded for the production of each individual item.

Interhandel, OAP

—Continued from page 3

ing of Federal Judge Bolitha J. Laws dismissing Interhandel's suit.

Judge Lewis dismissed the claim because Interhandel had failed to abide by a court direction that it produce certain papers which the government claimed would settle the dispute as to whether Interhandel owned the chemical firm in its own right or was serving as a cloak for German interests.

Interhandel produced some of the documents, but not all. It claimed that it could not comply with the court's demand because it would violate the Swiss secrecy laws. Although the appeals court sustained the ruling of Judge Lewis, it gave Interhandel an additional six months to produce the papers.

The running of this six months period was stayed while the appeal was pending in the supreme court. Now that the supreme court has acted, Interhandel must either produce the papers or the dismissal order of Judge Laws will become final.

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Hidalgo Completing

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have either been placed in operation or are undergoing final testing prior to beginning operations.

Among the latter is the gas generation section, where natural gas is mixed with oxygen to produce the synthesis gas from which the raw product streams are derived. The old generator was substantially modified, and a completely new one added to the plant facilities. These units are now going through shakedown testing preparatory to initial operations.

Mr. Smith pointed out that the utilities section of the plant has been in continual operation for several months, as has the oxygen plant. The latter is said to be the largest of its kind, with a total design capacity of 50,000,000 cubic feet daily, almost as much as the combined capacity of all existing high purity oxygen plants in the United States. The oxygen plant has also undergone extensive modification during the rehabilitation program.

Mr. Smith said the operating staff of the chemical plant is substantially complete. Operating personnel have received special training in the plant's design and functions through several schools conducted on the plant premises. The last of these schools is now in progress.

Cutter Will Limit

—Continued from page 4

licensed by the Department of Health, Education and Welfare to produce Salk vaccine, had to take its output off the market last April after defects turned up in the product.

Despite the "very unfortunate" vaccine situation, Dr. Cutter reported that sales of other products showed monthly increases over 1954 levels.

This, he said, "includes the months while the lay press was 'piling it on' as no firm has ever had it piled on before, as well as the period after the United States Public Health Service made their courageous report that their testing procedures had been found inadequate."

He expressed gratitude to the medical and allied professions "for this vote of confidence for our firm and our products."

A decline in sales from $14,850,821 in 1954 to $11,482,443 last year was attributed by Dr. Cutter to completion of substantial contract sales to the federal government, the American Red Cross and other agencies which had bought items for stockpiling in 1952, 1953 and 1954. These, he added, "did not exist in 1955."

Selections for Your Bookshelf

FLUID FLOW IN PRACTICE—Edited by J. R. Caddell. Cloth; 119 pages; 5 x 7¼ inches. New York: Reinhold Publishing Corporation. $3.

This book covers the papers presented at the third "Experience In Industry" symposium sponsored jointly by the Philadelphia-Wilmington section of the American Institute of Chemical Engineers and the University of Pennsylvania.

The material is restricted to the flow of liquids, including slurries, in pipelines and pumps, and to simple applications for gases. Basic principles are reviewed, problems of design are considered, and problems of maintenance and operation of equipment are discussed. This book serves as a good bridge between college instruction and field experience.

REMINGTON'S PRACTICE OF PHARMACY, eleventh edition, edited by Eric W. Martin and E. Fullerton Cook. Cloth; 1,707 pages, 8 x 11¼ inches. Easton: Mack Publishing Company $18.00

This volume, with over 1,000 illustrations contains much up-to-date information, and covers essential material included in former editions plus developments since the publication of the tenth edition in 1951.

The first edition appeared in 1885, and the revisions incorporated in this edition involve a more profound change in the practice of pharmacy than had occurred during the first ten editions. The book is divided into parts. Part one deals with an introduction to pharmacy; part two, with physical pharmacy ranging from chromatography to hydrogen ion concentration, and the various applications of physical chemistry and physics to pharmacy.

Part three has to do with the preparations of pharmacy, part four, inorganic pharmacy; part five, organic pharmacy; part six, biological pharmacy; part seven, analytical pharmacy; and part eight, the professional services of pharmacy.

REPORT OF THE 40TH NATIONAL CONFERENCE ON WEIGHTS AND MEASURES—1955; miscellaneous publication No. 216 of the National Bureau of Standards. Paper; 143 pages, 6x9 in. Washington: Government Printing Office. 70 cents.

The conference covered by this report set a high record for size with 462 delegates registered. What it did is obviously of direct interest to all who must use weights or measures. The report has a special interest because it includes the papers for a symposium on methods of proving liquefied petroleum gas liquid meter systems and the final report on the testing of weights and measures approval seals. It also includes data behind the revision of handbook 44 on device tolerances and a report on methods of sale of commodities.

THE "FAIR TRADE" QUESTION Paper; 112 pages, 6x9 in. New York: National Industrial Conference Board. $3.

This is the forty-eighth report by NICB on studies in business economics. It has to do with an economic forum conducted by the conference with participation by professors of economics and of law, counselors at law, some of them specialists in antitrust law, and the president of the National Wholesale Druggists Association. Of the six guest participants, four were members of the Attorney-General's national committee to study the antitrust laws.

Everybody interested in fair trade or other methods of combating price-cutting will find this report informatively interesting. The views expressed by the members of the forum are supplemented with an excerpt from the report of the Attorney-General's committee; one from a Canadian report on loss-leader selling; one from the 1952 report of the congressional select committee on small business; what Justice Louis D. Brandeis had to say in 1913 on "Cutthroat Prices"; and other comments on the subject.

The question was not resolved by the forum. The appended "Working Papers" leave it quite open. Hence, whatever the view of the reader, he will find in this compilation much to commend—and much to condemn.

CURRENT PRACTICE IN THE DEVELOPMENT OF MANAGEMENT PERSONNEL. Research report No. 26. Paper; 35 pages, 6x9 in. New York: American Management Association. $1.75 (AMA members, $1.25).

CONTROLS AND TECHNIQUES FOR BETTER MANAGEMENT. General management series 176. Paper; 64 pages, 6x9 in. New York: American Management Association. $1.75 (AMA members, $1).

These additions to the AMA series of text books on management deal with particularly prevalent problems. The first has to do with an especially big problem of this time. Discovering management material and property processing it is something that faces every business concern. The volume presents a report on research by James C. Sinnigen, covering management development technics used by 460 companies. It suggests how to get the most from developing and training programs, and sets forth certain fundamental principles, interestingly informative for all executives who face the task of providing managerial reserves.

The second textbook is a combination treatise. It starts out with a description and evaluation of "new management tools" by Prof. Peter F. Drucker, of NYU Graduate School of Business. It goes on to discuss controls for growth, research, and development; takes a learning look at pitfalls of collective bargaining; outlines training for cost reduction (today's biggest steps toward successful competition); and winds up with a psychological cost accounting slant on "Is Personnel Testing Worth the Money?"—the answer to which depends.

PRODUCT LIABILITY CASES. By Frank T. Dierson and Charles Wesley Dunn. Eighth book in the Food Law Institute series. Cloth; xlvii+1134 pages, 6½ x 9¾ inches. Chicago: Commerce Clearing House, Inc. $12.

Product liability is as old as products. Because of the prominence of human reasoning in its determination, it is more diversified, in spite of the enormous advances and expansions with products in that respect.

Product liability law is of ancient origin. It, too, has grown apace in various dimensions. As Mr. Dierson well puts it in the introduction of this treatise, "the standard of care required of the manufacturer or seller is greater than ever before," and while, among the several states, the law "generally derives from common principles, a difference in application and conclusion among the various jurisdictions has led to non-uniformity."

The products scope of this collection of cases encompasses foods, drugs, and cosmetics. According to the alphabetical table of cases, those products provide something more than 600 significant cases. The treatises are about equally divided between detailed coverings and [illegible] tions. The topics covered run all the way from "Beverage Containing Dead Mouse" to "Perfume Causing Skin Irritation."

In addition to the alphabetical table of cases, there is a jurisdictional table, encompassing forty-four states, the District of Columbia and Puerto Rico. Twenty-three English cases also are covered. There is a long, detailed index in the back of the book, all significant angles on the information to be found in the case reports.

Mr. Dierson and Mr. Dunn are widely experienced as counselors in the food and drug industries. They are prominent, by virtue of accomplishments in the legal segments of those industries. What they have provided in this compilation of case histories is a working manual needed every day by some member of one or another of the food, drug and cosmetic industries.

It provides a most useful insight into that continuously repeating question: "What is the law in such instances?"

FRONTIERS IN LABOR-MANAGEMENT RELATIONS. Personal series No 16[illegible]. Paper; 47 pages, 6 x 9 in. New York: American Management Association. $1.75 (AMA members, $1).

Because of what has not been done in the negotiating of the AFL-CIO and NAM leaders, this AMA guidebook has a particularly timely interest, accentuated by its treatment of one of the biggest, newest aspects of the relations with which it has to do—GAW.

This approach to relations handling first takes a careful look at the challenge of tomorrow's industrial relations—with at least a peep at the influence of automation. Then it looks at the 1955 Ford-UAW contract and asks: "Is there a Ford in your bargaining future?"

After those lookings comes a helpful pointing to the value of realistic dealing by the vice-president of industrial relations for the United States Steel Corporation. Management can learn usefully by looking and listening along those lines.

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